CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 15, 1907.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File..... 51
List of Contracts Pending..... 51
Railways 51
Electric Railways 52
Light and Power Plants..... 52
Bridges 53
Buildings 53
Water Supply and Irrigation..... 54
Sewerage 55
Streets and Roads 55
Manufacturing Plants 55
Miscellaneous Contracts 56, 57
Contract Prices 56
U. S. Possessions and Cuba..... 58
READERS' WANTS 58
CIVIL SERVICE EXAMINATIONS..... 58
PROPOSALS 58

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

8-16*Dredging, Jacksonville, Fla..(S.) 7-18
8-16*Jetty work, Galveston, Tex...(S) 7-18
8-17*Sewers, etc., Asbury Park, N. J. .....(S) 8- 1
8-20*Dredging, Boston, Mass.....(S) 8- 1
8-24 Quay wall Bremerton, Wash..(S) 8- 1
8-28*Sewer, Louisville, Ky..(P. & S.) 8- 8
9- 7 Dredging, Wash., D. C.....(S) 8-15
9-14 Tank, etc., Norfolk, Va.....(S) 8-15
9-14*Valves, sluice gates, Manila, P. I. .....(P. & S.) 8- 1

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

8-19*Posts and lamps, West Point, N.Y. 8- 1
8-19 Elec. light plant, Tecumseh, Neb. 8- 8
8-23 Elec. equipment, Newark, N. J... 8-15
8-20*Lighting, West Point, N. Y..... 8- 8
8-26*Elec. ducts, West Point, N. Y.. 8-15
8-28 Equipment, San Francisco, Cal.. 8- 1
8-31*Lighting, Lebanon, Pa..... 7-18
9- 4 Power plant Winnipeg Man.... 6-13
9- 5 Power develop., Campbellford, Ont..... 8-15
9-16 Lighting, Milton, Ohio 8-15

BRIDGES.

8-16 Culvert repair, Cincinnati, O..... 8- 1
8-16 Bridge, Pateros, Wash..... 8-8
8-16 Viaduct repair, Cincinnati, O..... 8-8
8-17 Bridge, Chicago, Ill..... 8-8
8-17 Bridge, Port Clinton, O..... 8-8
8-19 Bridge, Andover, O..... 8-8
8-19 Bridge, Urbana, O..... 8-8
8-19*Bridges, Council Bluffs, Iowa.... 8-8
8-19 Bridge, Redwood City, Cal..... 8-8
8-19 Bridge, Youngstown, Ohio..... 8-15
8-20 Bridges, Greenville, S. C..... 8-15
8-20 Bridge, Emporium, Pa..... 8-15
8-20 Bridge, Des Moines, Iowa..... 8-8
8-20 Bridge, Ft. Myer, Va..... 8-8
8-20*Bridges, Porto Rico..... 7-18
8-21 Piers, New York, N. Y..... 8-15
8-23 Bridge, Sandusky, Ohio..... 8-15
8-24 Bridge, Terre Haute, Ind..... 8-15
8-24 Bridge, Lebanon, O..... 8-8
8-28 Bridge, Panama 8-15
9- 2 Bridge, Jefferson, Ohio..... 8-15
9- 2 Bridge, Tarboro, N. C..... 8- 1
9- 3*Bridge, Catlettsburg, Ky..... 8-15
9- 3 Bridge, Ingot, Cal..... 8-15
9- 4 Bridge work, Columbus, Ohio..... 8-15
9- 9*Bridge, Plaquemine, La..... 8- 8
9-16 Bridge, Madera, Cal..... 8- 8

BUILDINGS.

8-18 Pythian Home, Decatur, Ill.... 8-15
8-19*Post-office, Alexandria, Minn.... 7-11
8-20*Post-office, Decatur, Ill..... 7-11
8-20 Court-house, Lumberton, N. C... 8- 8
8-20 Hospital, Athens, Ohio..... 8-15
8-22 High school, Negaunee, Mich... 8-15
8-22 Post-office Jackson, Miss..... 7-18
8-23 School, Delaware, Ohio..... 8- 8
8-23 Fire houses, New York, N. Y... 8-15
8-26 Police headquarters, New York.. 8-15
8-27 Post-office, Trenton, N. J..... 7-25
8-28 Armory, Portland, Ore..... 8- 8
8-28 Fire houses, New York, N. Y.... 8-15
8-28 Hotel, Ft. Smith, Ark..... 8-15
8-31 Masonic temple, Athens Ohio.... 8-15
8-31 Jail, Williamsport, Ind 8- 8
9- 3*Officers' quarters, Wash., D. C... 8- 8
9- 3 Cell house, Bloomfield, Ind..... 8- 8
9- 4 Post-office, Quincy, Mass..... 8- 1
9- 5 Laundry (Mfg. Pl.), Evansville, Ind..... 8- 1
9-11 Jail, Eureka, Cal..... 8- 8
9-14 Shops (Mfg. Pl), Pensacola, Fla. 8-15
9-16 Hospital, Buffalo, N. Y..... 8- 8
9-16 Hospital, Pittsburg, Pa..... 8- 8
9-16 Post-office, Muscatine, Ia..... 8- 8
9-24 Post-office, Hamilton, Ohio..... 8-15
10- 3 Court-house plans, La Moure, N. Dak. 8-15

WATER-WORKS.

8-16 Pipe, etc., Homestead, Pa..... 8-15
8-16 Pipe plans, Sacramento, Cal..... 5-30
8-19 Tank etc., Lombard, Ill..... 8- 8
8-19 Machinery, Geneseo, Ill..... 8-15
8-20 W.-Works, etc., Dawson, Minn. 8-15
8-20 W.-Works, Lewisburg, Tenn.... 8-15
8-20 Hydrants, Louisville, Ky..... 8- 8
8-20 W.-Works, Russellville, Ark.... 7-25
8-21*Dam, etc., Springfield, Mass..... 7-25
8-21*Strainer, Ft. Hancock, N. J..... 7-25
8-22*Filters, etc., Philadelphia, Pa.. 7-25
8-23*Water pipe, Westborough, Mass. 8- 8
8-26 Pumps, etc., Ashland, O 8- 8
8-26*Reserv., etc., Pleasantville, N. Y. 8-15
8-26 Engine, Cumberland, Md..... 8-15
8-27 Pipe, etc., Cincinnati, O..... 8- 8
8-29*Elec. machinery, Philadelphia.. 8- 8
8-29*Sand washer pumps, Philadelphia. 8- 8
8-30 W.-Works, Bradshaw, Neb..... 8-15
8-31 Main, etc., Montgomery, Minn.. 8-15
9- 3 Ditches, Ft. Snelling, Minn..... 8-15
9- 3*Channels, etc., Joliet, Ill..... 8-15
9- 3 Pipe, etc., Kansas City, Mo.... 8-15
9- 3 Pipe, Victoria, B. C..... 8- 8
9- 4*Water pipe, New Orleans, La.... 6-27
9- 5*Bonds, Elkins, W. Va..... 8-15
9- 6 Conduit, Montreal, Que 8- 8
9- 7 W.-Works, Pensacola, Fla....(S) 8-15
9- 7 W.-Works, Pensacola, Fla..... 8-15
9- 8*Engines, etc., Louisville, Ky..... 8- 1
9-10*Ditch, Sibley, Iowa 7-25
9-14*Valves, sluice gates, Manila, P. I. 8- 1
9-14 Tank, etc., Norfolk, Va..... 8-15

SEWERS.

8-16 Sewer pipe, London, Ohio..... 8-15
8-17 Sewer, Racine, Wis..... 8-15
8-17*Sewers, etc., Asbury Park, N. J.. 8- 1
8-19 Sewers, Cape Girardeau, Mo..... 8- 1
8-19 Sewer, Port Clinton, O..... 8- 1
8-19*Sewers, etc., Riverside, N. J..... 8- 1
8-19 Sewers, etc., Webster Groves, Mo..... 8- 8
8-19 Sewers, Whitesboro, N. Y..... 8-15
8-19 Lift station, Houston, Tex..... 8-15
8-19 Sewer, Denison, Iowa 8-15
8-20 Sewer, Nevada, Mo..... 8-15
8-20 Sewers, Springfield, Mass..... 8-15
8-20*Drain, etc., Hackensack, N. J.... 8-15
8-20 Sewers, Cleveland, Ohio..... 8-15
8-20*Sewers, Wildwood, N. J..... 8- 8
8-20 Sewers, Collinsville, Ill..... 8- 8
8-20 Sewers, Athol, Mass..... 8-20
8-20 Sewers, Cleveland Heights, O.... 8- 1
8-21 Sewers, etc., North Chicago, Ill.. 8-15
8-22 Sewers, etc., Fayetteville, Ark... 8- 1
8-23 Disposal plant, Delaware, O..... 8- 8
8-23 Sewers, Des Moines, Iowa..... 8-15
8-26*Sanitary sewers, Baden, Pa..... 8- 8
8-28*Sewer, Louisville, Ky..... 8- 8
8-28 Sewer, New York, N. Y..... 8-15
8-30 Drains, Ft. Dade, Fla..... 8-15
8-30*Sewers, Evansville, Ind..... 8- 8
9- 3*Sewer, New Philadelphia, O..... 8- 1
9-11*Sewers, etc., New Orleans, La.... 7- 4

STREETS AND ROADS.

8-16 Road, Covington, Ind..... 8- 8
8-16 Grading, etc., Olympia, Wash.... 8- 8
8-16 Walks, Painesville, Ohio..... 8-15
8-16 Sidewalks, etc., London, Ohio.... 8-15
8-17 Road, Bedford, Ind..... 8- 8
8-17 Road, Terre Haute, Ind..... 8- 8
8-17 Paving, Huntsville, Ala..... 8- 1
8-17 Paving, Cleveland, O..... 8- 1
8-19*Grading, etc., Westfield, N. J.... 8- 1
8-19 Approaches, etc., New York.. 8- 8
8-19 Paving, Steubenville, Ohio..... 7-25
8-19 Road, Pembroke, N. H..... 8- 8
8-19 Grading, etc., Toledo, O..... 8- 8
8-19 Paving, New Haven, Conn..... 8-15
8-19 Road, Tipton, Ind..... 8-15
8-20*Paving, etc., Bayonne, N. J.... 8-15
8-20 Paving, Lorain, Ohio 8-15
8-20 Paving, Sandusky, Ohio 8-15
8-20 Paving, etc., Fulton, Mo..... 8-15
8-20*Paving, etc., Wildwood, N. J.... 8- 8
8-20*Macadam, etc., Woodcliff, N. J.. 8- 8
8-20 Sidewalk, Cleveland Heights, O.. 8- 1
8-21 Paving, etc., New York, N. Y.... 8- 8
8-21 Roads, etc., Ft. St. Philip, La.... 8- 8
8-21 Paving, etc., Aberdeen, Wash.... 8- 8
8-21 Paving, Iowa City, Iowa..... 8-15
8-22 Blocks, New York, N. Y..... 8-15
8-23 Turnpike, Mt. Gilead, Ohio..... 8-15
8-23 Paving, Dillonvale, Ohio..... 8-15
8-23*Macadam road, Etna, N. J..... 8- 8
8-24 Grading, Watertown, Wis..... 8- 8
8-24 Roads, etc., Whipple Barracks, Ariz..... 8- 8
8-26 Paving, etc., Jacksonville, Fla... 8- 8
8-26 Grading, etc., Ft. Washington, Md..... 8- 1
8-26 Road work, Pittsburg, Pa..... 8-15
8-27*Paving, etc., Pensacola, Fla..... 7-25
8-28 Paving, Hoboken, N. J..... 8- 8
8-29*Paving, Smethport, Pa..... 8-15
8-30 Grading, etc., Wauseon, Ohio.... 8-15
8-30 Road work, Madisonville, Ohio... 8-15
8-30 Macadam, etc., Marshfield Mo... 8- 8
8-31*Paving, etc., Ridgway, Pa..... 8-15
8-31 Road, Huntington, Ind..... 8-15
9- 3*Highway roads, Albany, N. Y.... 8-15
9- 3 Road, Yorktown, Va..... 8-15
9- 3 Paving, Beardstown, Ill..... 8- 8
9- 3*Paving, New Philadelphia, O.... 8- 1
9- 3*State roads, Albany, N. Y..... 8- 8
9- 6 Roads, Bluffton, Ind..... 8-15

MISCELLANEOUS.

At once*Fill, Rye, N. Y..... 8-15
8-16*Jetty work, Galveston, Tex..... 7-18
8-16*Dredging, Jacksonville, Fla..... 7-18
8-17 Breakwater, Oswego, N. Y..... 8- 1
8-19*Lamp posts, etc., West Point, N. Y..... 8- 1
8-19 Vessel, Washington, D. C..... 8- 1
8-19*Dredging, New London, Conn... 7-25
8-19 Riprap, New York, N. Y..... 8-15
8-20 Automobile, New York, N. Y.... 8-15
8-20*Wharf, San Diego, Cal..... 6-20
8-20*Fence, Oswego, N. Y..... 8- 1
8-20*Dredging, Charleston, S. C..... 8- 1
8-20*Dredging, Boston, Mass..... 8- 1
8-20 Copper wire, South Africa..... 8- 1
8-20 Supplies, Washington, D. C..... 8- 8
8-21 Buoys, etc., New York, N. Y... 8- 1
8-21 Freight sheds, New York, N. Y.. 8-15
8-22*Lantern, Hawaii..... 8- 1
8-22*Dredging, Savannah, Ga..... 7-25
8-23*Dredging, Boston, Mass..... 8-15
8-23*Dredging, Savannah, Ga..... 7-25
8-24 Quay wall, Bremerton, Wash.... 8- 1
8-25 Dredging, Cheboygan, Mich..... 7-25
8-26*Embankment, New York, N. Y... 8- 1
8-26*Jetties, Jacksonville, Fla..... 8- 1
8-26 Vacuum system, New York.... 8-15
8-26 Gasoline car, New York, N. Y.... 8-15
8-26 Steel barges, Panama 8-15
8-27 Breakwater, St. Peter's Bay, P. E. I..... 8-8
8-28*Channel, Newport, R. I..... 8- 1
8-30*Suction dredges, New York, N. Y. 8- 1
8-30 Excav., Cape Porpoise, Me..... 8- 1
8-30*Iron flagstaff, New York, N. Y... 8-15
9- 2*Rubble stone, dikes, New York.. 8-15
9- 3*Excav., concrete walls, Joliet, Ill. 8-15
9- 3 Torpedo boats., Wash., D. C..... 7-25
9- 3*Pier, dredging, Milwaukee, Wis.. 8- 8
9- 4*Dredging, Providence R. I..... 8- 8
9- 4*Dredging, Norfolk, Va..... 8-15
9- 4*Garbage disposition, Balto., Md.. 8-15
9- 5*R. R. grading, bridges, Pensacola, Alabama & Western 8-15
9- 6*Concrete conduit, Montreal, Que. 8- 8
9- 7*Dredging, Wash., D. C..... 8-15
9- 7*Dredging, New London, Conn... 8-15
9- 7*Con. conduit, Little Rock, Ark... 8-15
9- 7*Dredging, Little Rock, Ark..... 8-15
9-10*Breakwater, Bar Harbor, Me..... 8-15
9-10*Breakwater, Cleveland, Ohio..... 8-15
9-10*Dredging, New Orleans, La..... 8-15
9-10 Drainage, Sibley, Iowa..... 8- 1
9-11*Concrete dams, Cincinnati, Ohio.. 8-15
9-30*Searchlight outfit, Washington, D. C..... 8- 1
10- 5*Lock, dam, Vicksburg, Miss..... 8- 8
10- 5*Locks, dams, Mobile, Ala..... 8- 8

FOREIGN.

8-16 Railway, Italy 7-11
9- 2 Wharf plans, etc., Sweden..... 5- 2
9-30 Railway bridges, Chile..... 8- 1
9-15 Abattoir plans, France..... 6- 6
12-31 City lighting, India 6- 6

CIVIL SERVICE.

8-21 Draftsman, San Francisco, Cal.. 7-18
8-21 Aid, Washington, D. C..... 8- 1
8- 21 Computer, Washington, D. C.... 8- 1
8-22 Plan examiner, New York, N. Y.. 8- 1
8-22 Marine Steam Engr., Angel Island, Cal..... 8- 8
8-24 Marine Engr., Albany, N. Y..... 8- 8
8-24 Asst. Bacteriologist, Albany, N. Y..... 8- 8
8-24 Factory Inspector, Albany, N. Y. 8- 8
8-24 Elec. Meter Inspector, Albany, N. Y..... 8- 8
8-24 Examiner, Albany, N. Y..... 8- 8
8-24 Gas Meter Tester, Albany, N. Y. 8- 8
8-24*Leveler, Albany, N. Y..... 8- 1
8-24*Asst C. E., Albany, N. Y..... 8- 1
8-24*Bridge Designer, Albany, N. Y.. 8- 1
8-24*Bridge Draftsman, Albany, N. Y. 8- 1
8-24*C. E. Draftsman, Albany, N. Y.. 8- 1
8-24*Foreman, Albany, N. Y..... 8- 1
8-28 Electrotype Molder, Wash., D. C. 8- 8
8-28 Chief Engineer, Chicago Ill 8- 1
9- 4 Document Cataloger, Wash., D. C. 8-15
9- 4 Hydrographic Surv., Cuba..... 8-15
9- 4 Engineer, Cheyenne Agency, S. Dak..... 8-15
9- 9 Crop Technologist, Wash., D. C.. 8-22
9-11 Computer, Wash., D. C..... 8-22

RAILWAYS.

AMERICAN MIDLAND.—Financial arrangements have been made for the construction of the American Midland Railroad, which was chartered recently with $50,000,000 capital stock. Judge A. G. C. Bierer, former associate justice of the Oklahoma Supreme Court, is the local attorney for the company, at Guthrie, Okla. The line, as planned, will be 2,100 miles long, from Langdon, S. Dak., to Galveston, Tex., and the incorporators have the necessary funds with which to build it, according to Judge Bierer. The road was originally chartered by Kansas and Oklahoma parties, but under another name. Their plans and the route outlined seemed feasible, and the promoters interested a New York syndicate, consisting of Henry Oppenheimer, Meyer Oppenheimer, Charles Sendowsky, and others, in construction. Later things did not progress to the satisfaction of the New Yorkers, and they took over the company's plans and secured a new charter, during the past week, for the American Midland. The incorporators are Henry Oppenheimer, Meyer Oppenheimer, Charles Sendowsky, Fremont Jerome Hoyle and Lamar Lyndon, all of New York. Under the Oklahoma law there must be three resident incorporators, and these are U. C. Guss, Pres. of the Guthrie National Bank; Carl R. Havighorst, Cashier of the bank, and Benjamin F. Hegler, Jr., a local attorney. In addition to the main line, two branches are provided for, one from Winnsboro, Tex., to Shreveport, La., and the other from Coalgate, Ind. T., to Poteau, Ind. T., penetrating the Indian Territory coal and coke regions. The route is southeast through Oklahoma and Indian Territory, via Guthrie and Coalgate, to Galveston. Noted on July 25.

BILOXI GREAT NORTHERN.—We are officially advised that right-of-way is mostly secured by this company, which was recently organized in Mississippi to build a line from Biloxi north to a connection with the Mobile & Ohio R. R. probably at Bucatunna, a distance of 100 miles. W. M. Ducati is Pres.; J. B. Chinn, Vice-Pres.; W. Gorenflo, Treas., and I. Heidembeim, Secy. W. L. Covel is Ch. Engr., at Biloxi.

CHERRYVALE, OKLAHOMA & TEXAS.—J. H. Brewster, Gen. Mgr., Independence, Kan., informs us that survey has been made for 250 miles. Right-of-way is partly obtained. Date for calling for bids and letting contracts is as yet indefinite. S. M. Porter, Caney, Kan., is Pres.; J. B. Daulton, Lawrence, Kan., is Ch. Engr. As previously noted, an amended charter was recently granted to the Cherryvale, Oklahoma & Texas R. R. Co. in Oklahoma, to build 700 miles southwest from Cherryvale, Kan., to El Paso, Tex. The following branch lines are provided: From Caney, Kan., southeast to Fayetteville, Ark., 150 miles; from Pawhuska, Okla., southeast to South McAlester, Ind. T., 200 miles, and from Childress, Tex., southeast, via Abilene, to Aransas Pass, Tex., 600 miles. Headquarters are established at Caney and Independence, Kan.; and Perry, Okla. Capital stock, $18,000,000.

CHESAPEAKE & OHIO.—At a recent stockholders' meeting the proposed issue of $10,000,000 of 5% 5-year bonds was approved. The bonds have been sold to Blair & Co., of New York, and the proceeds are to be devoted to improving the road and equipment.

GREAT SOUTHWESTERN.—It is reported that this company has been "chartered at Guthrie, Okla., with $10,000,000 capital, to build a line from St. Louis, Mo., to El Paso, Tex., via Salisaw and McAlester, Ind. T., and through Comanche County, Okla. The incorporators are H. P. and R. B. Moseley, of Muskogee, Ind. T.; A. I. Gibbs and Peter Deichman, of Wagoner, Ind. T.; John B. Yanger and L. C. Donica, of Oklahoma City, Okla."

INTERSTATE TRANSFER R. R. — This company has been incorporated in Wisconsin to build a 20-mile railway, probably from Superior to Duluth, Minn. The articles state that the road is to run "from a point or points on the shore of Lake Superior and Allouez bay or either into St. Louis County, Minnesota." The capital stock is $500,000. Following are the directors for this year: Frank E. House, William A. McGonegal, Thomas F. Cole, George L. Ries, James B. Cotton, all of Duluth; Sol L. Perrin and W. W. Savage, Superior.

LAKE ERIE, ALLIANCE & WHEELING.—The Wheeling, W. Va., "Intelligencer" stated on Aug. 8th that "the L. E., A. & W. R. R. has a corps of engineers making a survey from the terminus of the road at Piney Fork, Jefferson County, over its old right-of-way to Martins Ferry, Ohio. The engineers have now reached the Gaylord coal works, three miles above Martins Ferry, and will complete the survey in a few days. The terminus of the old right-of-way is just north of the corporation line of Martins Ferry and near the little town of Burlington, Ohio. Over 20 years ago the L. E., A. & W. R. R. surveyed its line to Martins Ferry and purchased a right-of-way. The road was only constructed as far as Bergholz, Jefferson County, Ohio, and that small town was its terminus for a number of years and where it tapped a large coal field. Five years ago the road was extended to Piney Fork, Jefferson County, and from that town a switch was constructed to Dillonvale, making an extension of about twenty miles. On the late extension the road again touched several important mines, increasing its coal business to the lakes. If the line is constructed to Martins Ferry it will make an extension of over 20 miles, and will again pass through coal fields." S. Rockwell, Cleveland, Ohio, is Ch. Engr. of the Lake Shore & Michigan Southern Ry. Co., which controls the L. E., A. & W.

LAS VEGAS & TONOPAH.—According to press reports C. O. Whittemore, Vice.-Pres., Salt Lake City, in a recent interview, stated that the survey from Goldfield to Tonopah, Nev., would be completed soon and that "the grading into Goldfield will be finished Aug. 15, and the tracks will follow pretty fast, and trains shoud be running into Goldfield anywhere from the first to the middle of September," said Mr. Whittemore. "As soon as the grading is completed into Goldfield, it will be continued on to Tonopah. We have had two surveys made out of Goldfield, one by way of Diamondfield, and the other to the west of Columbia Mountain, and we have pretty well determined on the course we are to take. We have not yet decided upon our terminals here, but we anticipate no difficulty as to that. Coming into Tonopah, particular attention will be paid to our grades, and there will be no higher per cent than 2.5. Surveying into Goldfield, the route was changed, making the road three miles longer at an additional cost of $50,000. But when we are operating the road we will soon save that extra cost. We have not yet solved the fuel question, which is a very important one." A. Maguire is Ch. Engr., Las Vegas, Nev.

McALESTER SOUTHWESTERN. — Under this title a company has been organized in Indian Territory to build a line from a point near Sallisaw, Ind. T., on the Missouri Pacific-Iron Mountain System, to a point on the Red River in Comanche County, Oklahoma, 250 miles. Capital, $5,000,000. Estimated cost of line, $4,500,000. Incorporators include A. S. McKennon, C. E. Dawley, Dr. E. N. Allen, of McAlester; and others. Line from McAlester to Sallisaw may be built immediately.

MISSOURI, KANSAS & TEXAS.—The company may spend from $300,000 to $350,000 in improving its Forth Worth, Tex., terminal. J. W. Petheram is Ch. Engr., Dallas, Tex.

MISSOURI RIVER & GULF.—E. Holbrook, Ch. Engr., New Nelson Bldg., Kansas City, Mo., states that matters in connection with the proposed line are still in the preliminary stage. Noted on Aug. 1.

NEW YORK, CHICAGO & ST. LOUIS.—This company proposes to abolish all grade crossings in the village of East Cleveland, Ohio, by raising its own tracks and depressing the streets. It is provided that the whole expense shall be borne by the railroad company. The street work is to be undertaken by the village and paid for by the railroad. The road is to have the privilege of increasing its single track to four tracks. E. E. Hart is Ch. Engr., Cleveland, Ohio.

NORTHWESTERN PACIFIC.—A. H. Payson, Pres., San Francisco, Cal., announces that authority has been granted to build seven miles of railway this year. The most difficult part of the undertaking is to be started first, that between Shively, 40 miles south of Eureka, and Dyerville, Cal. The engineers in charge say that this is one of the most difficult pieces of work in the line between Willits and Shively. The country is exceedingly mountainous and the forks of the Eel River present almost insurmountable difficulties. In order to make an approach of the Eel River a tunnel 3,000 feet long will have to be built as well as strong abutments. Much other preparatory work will have to be done before the building of the bridge can be begun. It is estimated that seven miles of construction will cost in the neighborhood of $3,000,000. The San Francisco "Call" states that the Southern Pacific had prepared surveys for the road from Willits to Eureka and that they were destroyed in the fire of April, 1906. The plans have had to be reproduced and the cost of reproduction is said to have been at least $100,000. The gap from Willits to Shively is 110 miles long and the engineers believe that the cost of the line will be about $12,000,000. W. C. Edes is Ch. Engr., San Francisco.

OKLAHOMA & GOLDEN CITY.—John A. Griesel, Secy. of the Farmers and Merchants' Industrial Club, Golden City, Mo., advises us that this company will let contracts when surveys are finished which probably will be in November. Company will build a railroad from Pawhuska, Okla., to Jefferson City, and Springfield, Mo., 340 miles, with several branches as feeders, touching all the principal towns, timber, coal, oil, gas and lead and zinc mines, in Oklahoma and Missouri. When completed it will put the oil fields of Oklahoma many miles nearer the big markets of the East than at present, also the extensive coal fields and the lead and zinc district of southwest Missouri, the timber lands of central Missouri and the large deposits of iron that abound all through central and southern Missouri. Winfield S. Pope is Pres., Jefferson City. W. K. Palmer is Ch. Engr., Dwight Bldg., Kansas City, Mo.

PRESCOTT, READER & FORDYCE.—Company has been incorporated in Arkansas to build its proposed line from Reader, Ark., to Prescott, 24 miles, and thence to Fordyce, Ark., 50 miles further. The line is now in operation from Reader to Lyda, 6½ miles, and is to be immediately extended 24 miles to Prescott. Capital, $500,000. The incorporators are W. B. Ferguson, Pres.; S. C. Bossinger, Vice-Pres.; J. A. Defaut, Secy.; George W. Rogers, Treas.; A. R. Powers, Henry Hazel and J. T. Murphy.

*PENSACOLA, ALABAMA & WESTERN.—Bids are asked until noon, Sept. 5, for grading, masonry and bridges on 105 miles of railroad; 85 miles on the Andalusia Division and 20 miles on the Atmore Division. Bids will be received at the office of the Interstate Contract Co., 224 Brent Bldg., Pensacola, Fla.

SUMPTER VALLEY.—Joseph A. West, Ch. Engr., Ogden, Utah, advises us that surveys have not been made for proposed extension from Austin to John Day Valley, Ore., 40 miles. Right-of-way is secured for 20 miles. Capital is ready. Contracts will not be let for building this line this year. Work will include heavy construction. David Eccles is Pres., Ogden, Utah.

TOPEKA & SOUTHWESTERN.—C. K. Holliday, E. B. Merriam and J. B. Sims, of Topeka, Kan., have been appointed a committee to secure funds for the construction of this railway. Regarding this project, W. L. Taylor, Pres., Topeka, Kan., wrote us in March that contract has been let to the SOUTHWESTERN RY. CONSTRUCTION CO., of Topeka, for building and equipping this railway from Topeka to Council Grove, 60 miles. "Our engineering department is now preparing the specifications for the bridges, buildings, etc., and the same will be ready to sublet. It is our intention to push the work on this line to completion and have it in operation by the first of next year. Our line will be laid with 80-lb. steel; rock ballast; a maximum grade of 1% compensated, and a maximum of 4° curvature. We expect to make arrangements for the Missouri Pacific to operate their coast to coast trains from Council Grove to Kansas City over our line, via Topeka. This will save them nearly 40 miles and put Topeka on their through line."

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—The New York City Interborough Ry. Co. expects to have its 181st St. and Tremont Ave. lines finished by Nov. 1. This line will run from the 181st St. station of the Broadway subway line through 180th St. and Tremont Ave. across to West Farms. Ultimately it will be extended to Locust Point, on Long Island Sound. Another road the company will have in operation about the same time will be that known as the Kingsbridge road, which will connect with the subway at 225th St. and will intersect the 180th St. line at Southern Boulevard. Work is also progressing rapidly on the Ogden Ave. line, which, the company's officials say, will be in operation on or before Sept. 1. This road will extend north in Ogden Ave. from the 155th St. station of the Sixth Ave. elevated line. A. E. Kalbach, 13 Park row, is Mgr. and Engr.

ONEIDA, N. Y.—The Oneida Ry. Co. will build an extension to Kenwood, a suburb of this city. C. Loomis Allen is Gen. Mgr., Utica, N. Y.

LONG ISLAND CITY, N. Y.—The New York & Queens County Ry. Co. may extend its lines to Whitestone and Bay Side, Long Island. F. L. Fuller, 9 Borden Ave., Long Island City, is Gen. Mgr.

NEWARK, N. J.—The Morris County Traction Co. was granted permission to lay tracks in Springfield Ave., from Main St., Millburn, to the line in Maplewood, by the road committee of the Board of Freeholders at a meeting held on Aug. 5. The permission carries with it conditions that the company pave the space between the tracks and for a space of 18 ins. on each side with granite blocks, and the remainder of the thoroughfare with telford. Provision is also made that the company shall pave between the curbs wherever the Freeholders consider it necessary. The Morris County Co. now has a line in operation from Millburn to Summit, and with the completion of its line from Millburn to Maplewood passengers can go to the latter place by the Public Service cars and thence on to Summit by the Morris County line. F. H. Alleman, Mgr., Summit, N. J.

GRAHAM, W. VA.—C. W. Keister, of the Graham Hardware Co., states, according to the Manufacturers' Record, that a 2-mile extension of street-car line is needed by the town of Graham, and also an electric plant. It is desired to interest outsiders.

ELKINS, W. VA.—J. E. Morgan, Vice-Pres. and Gen. Mgr. of the Elkins Electric Railway Co., announces that the company will do its own construction, building a line in Elkins and also an extension from Elkins to Belington, W. Va., twelve miles, and possibly farther. Taylor & Taylor, of Elkins, W. Va., are the Engrs. Noted on June 27.

MEMPHIS, TENN.—The South Memphis Traction Co. has applied to the County Register for a charter to construct several new lines in South Memphis. According to present plans, five lines will be built, two from Memphis to South Memphis. Another line is to be a cross line going from Mississippi River up Mallory Ave. to Lauderdale, at which point a connection will be made with the line recently completed by the Memphis Street Ry. Co., which goes to the plant of the South Memphis Warehouse Co. Right-of-way will be asked for from the intersection of Front St. and Monroe Ave. east on Monroe to DeSoto to the southern limits of the city. From there the line will run south on Latham to Mallory Ave., and from there west on Mallory Ave. to the river. The incorporators of the company are: K. D. McKellar, James F. Hunter, W. E. Gage, W. G. Thomas and C. W. Edmonds.

ALLIANCE, OHIO.—The Youngstown, Alliance & Akron Railway Co. has been incorporated by T. H. Given, Pres. of the Farmers' National Bank, Pittsburg; M. K. McMillin, capitalist, Pittsburg, and E. H. Brosius, Hugh Blakeley and R. S. Kaylor, of Alliance. Right-of-way between Alliance and Akron has already been secured and work is to begin at once to secure right-of-way from Alliance to Youngstown. It is in fact for this purpose that the capital stock of $10,000 is to be used; as soon as preliminary work is completed the stock will be increased to $2,000,000.

TOLEDO, OHIO.—The Toledo & Fort Wayne Electric Railway Co., of Cleveland, $10,000 capital stock, has been incorporated by E. J. Pinney, H. J. Nord, Lewis A. Goldstein, Thomas C. Willard and John E. Lowry. They will construct, maintain and operate an electric railway connecting Toledo and Fort Wayne, Ind., passing through Lucas, Defiance and Williams Counties, in Ohio, and Allen County, in Indiana.

DETROIT, MICH.—Antoine Robert, 180 St. James St., Montreal, Que., is promoting an electric railway which will run from Adrian to Detroit. It will be known as the Detroit & Adrian Traction Co., and it will be capitalized at $2,000,000. It is reported that the company has received liberal franchises from Adrian, Tecumseh and Milan. Outside the cities the road will be built on a private right-of-way.

MANKATO, MINN.—Articles of incorporation have been filed by the Mankato Electric Traction Co., with the Secretary of State. The organization is a West Virginia corporation. It is to build an electric railway in Mankato. The capital is $200,000, of which $75,000 is preferred 5% stock. The incorporators are as follows: A. J. Whipple, Glencoe, Ill.; Celin C. H. Tyffe, A. M. Hewes, E. D. Adcock and M. J. Porter, of Chicago. Noted on July 25. W. L. Hixon, Mankato, Pres., writes us that contracts will be let immediately for constructing about six miles of new railway in Mankato for the Mankato Electric Traction Co. Work on surveys has been completed and right-of-way and capital for construction have been obtained. Fred. Kron is Vice-Pres.; W. D. Willard is Secy. and Treas.; H. E. Hance is Supt. Noted also on May 23.

COFFEYVILLE, KAN.—We are advised by F. B. Shirley, Pres. and Gen. Mgr. of the Kansas Traction Co., Coffeyville, that this company intends to let contracts in November for construction of its proposed electric road from Coffeyville to Kansas City, Mo., via Lawrence and Topeka, 225 miles. The work will be all new, low grade, mostly heavy, with 50 miles medium construction. Surveys will be completed about Oct. 15. Right-of-way is being obtained. Engineers are now in the field.

JOPLIN, MO.—The Joplin & Pittsburg St. Ry. Co. has filed with the City Clerk its written acceptance of the amended franchise granted by the City Council. D. B. Holmes, Pres., has deposited $10,000 with the City Treasurer as a forfeiture if the company does not fulfill the terms of the franchise, as amended. Work on the construction of the interurban line between Joplin and Pittsburg will be started as soon as a right-of-way can be obtained. Noted fully on July 25.

RUSSELLVILLE, ARK.—We are officially informed that the Russellville & Ozark Mountain Traction Light & Power Co. will build a line from Russellville to Dover, Ark., 10½ miles long. Surveys are made and right-of-way obtained. Adam J. Robinson, Pine Bluff, Pres. of the Southern Engineering & Construction Co., and also Pres. of the Traction Co., has been granted a 50-year franchise in Russellville for an electric railway and for a light and power plant. Edwin Cook, Pine Bluff, is Ch. Engr. (See under Light and Power Plants in this issue.)

PINE BLUFF, ARK.—J. M. Rose, Attorney, 314½ West Markham St., Little Rock, Ark., states that the Little Rock & Pine Bluff Traction Co., recently incorporated with $1,000,000 capital, will build a line from Little Rock to Pine Bluff, on the north side of the Arkansas River, with a branch to Stuttgart, Ark.; total length, 70 miles. J. J. Fiske, of Chicago, Pres. and Gen. Mgr.; W. H. Langford, Pine Bluff, Vice-Pres.; J. M. Rose, Little Rock, Secy. and Treas. Engineer not yet chosen, but survey probably will begin soon.

TULSA, IND. T.—J. Robert Burnham, Ch. Engr. of the Mid-Continent Traction Co., Tulsa, advises us that company has let no contracts yet for construction of its line. Right-of-way is partly secured. Survey has been begun. The line will be 21 miles long and will run from Tulsa to Red Fork, Sapulpa and the Glen Pool oil field. F. L. Smart, Kansas City Mo., is Pres.; Graham Burnham is Secy., Tulsa. The railway will connect three towns and accommodate a population of about 50,000. Noted on July 11.

PASCO, WASH.—Miles C. Moore, Pres. of the Columbia & Walla Walla Traction Co., Walla Walla, Wash., advises us that this company proposes to build from Pasco, via Wallula and Walla Walla, to Dayton, Wash., and to Lewiston, Idaho, 150 miles. Survey has been run and right-of-way secured as far as Dayton.

SEATTLE, WASH.—N. J. Wightman and C. J. Muckler, who were granted a franchise for the proposed Shore Line Elec. Ry., to maintain their franchise have deposited $10,000 with the city. The route for which plans have been filed is along Spokane Ave., from the city limits, Fourth Ave. South, Fourth Ave. and Westlake Ave., with a loop at Stewart St., and around the present City Hall. Work will be started soon.

WENATCHEE, WASH.—The Chelan Electric Co. has been incorporated with capital of $500,000, to build an electric railway from Wenatchee to the western part of Washington. The officers of the company are: J. T. McChesney, Pres.; E. C. Mony, Secy. Other trustees are: H. P. Scott, of Wilmington, Del.; J. A. Coleman and F. H. Brownell. It is reported that the route starts at a point near Wenatchee, following the Columbia River to Lake Chelan, thence north to the Okanogan River, and from there to the end of the state. Lighting and water privileges for all towns along the Chelan River are included in the articles.

GLENDALE, CAL.—At a recent mass meeting here the citizens accepted the terms upon which the Los Angeles Railway Co. will build a line into this city. The railway asks for private right-of-way on Verduro Road to a point between Third and Fourth Sts. to run from there to B St. within three blocks of Glendale Ave. In addition to this a bonus of $20,000 is asked. G. J. Kuhrts, Ch. Engr., Los Angeles.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BELLOWS FALLS, VT.—It is proposed to construct dam across the Connecticut River at Sumner's Falls, 31 miles north of Bellows Falls, six miles south of White River Junction and between Hartland and North Hartland. At that point the river passes through a narrow gorge and a $9,000 dam will develop 7,000 HP. The Bellows Falls Canal Co. owns the dam rights there. Surveys are being made this summer and plans drawn for building the dam. It is not probable that the dam will be built this season, but work may be begun next spring. When the dam is built the power will be used for generating electricity, which will be sold to any desiring to purchase. Arrangements will be made for conveying all the power to Bellows Falls if there is demand here for it. If not wanted there it will be sold in White River Junction, Hanover, Lebanon, Windsor and Claremont.

WATERBURY, CONN.—Power for operating the plants of the Benedict & Burnham Mfg. Co. and the Holmes, Booth & Haydens Mfg. Co., two of the large underlying properties of the American Brass Company, will be supplied from a single boiler plant as soon as the necessary arrangements can be made. The boiler plant will be located on the east side of the Naugatuck River, and the steam for the Holmes, Booth & Haydens plant, which is located on the west side of the river, will be conveyed under the stream in pipes. It is believed that by the use of a combination power plant a substantial economy, especially in the matter of labor, can be effected.

*WEST POINT, N. Y.—Bids are asked until noon, Aug. 26, by Maj. J. M. Carson, Q. M., U. S. M. A., for furnishing treated iron pipe for electric ducts.

NIAGARA FALLS, N. Y.—The Niagara State Reservation Commission has awarded contract for construction of lighting system on state lands in this city to the F. P. LITTLE ELECTRICAL CO., of Buffalo, for $13,731. It is to be completed within 90 days.

MADISON, N. J.—S. G. Willets, Boro. Clerk, states that the Light Committee has under consideration the doubling of the capacity of the municipal electric light plant, and may recommend same to Council at the August meeting.

NEWARK, N. J.—Bids are asked until 7.30 p. m., Aug. 23, by the Special Committee on Electric Lighting of the Common Council for furnishing and installing an electric light plant in City-Hall, to include the following: Three engines and three electric generators; steam piping, etc.; switchboard instruments, wiring, etc.; foundations and masonry; entire equipment. James M. Seymour, Consulting Engr., 55 Lawrence St., Newark. Jas. F. Connelly, City Clk.

CAMDEN, N. J.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, Pa., have completed plans for two additional factory buildings and a power plant to be erected for the Victor Talking Machine Co. in Camden, at a cost of $200,000. The power plant will have a capacity of 4,000 HP.

WASHINGTON, D. C.—The Potomac Electric Power Co. will erect a substation at Sherman and Harvard Sts., N. W., in order to furnish better service to the section, it is reported. H. W. Fuller is Gen. Mgr.

POCOMOKE CITY, MD.—R. E. Stevenson, owner and manager of the Stevenson Electric Light Co., states that he expects to install a 100-HP. boiler and a 25-K.W. direct-connected unit in the plant this fall.

KINGS MOUNTAIN, N. C.—City has voted to issue $50,000 of bonds for waterworks and an electric light plant.

HICKORY, N. C.—The Brookford Mills has awarded contract to ABEE & EDWARDS, of Hickory, N. C., for construction of stone and concrete dam to develop power. The dam will cost about $18,000.

AIKEN, S. C.—The Carolina Light & Power Co., H. M. Dibble, Pres., has called a meeting to consider issuing $40,000 of bonds.

CORNELIA, GA.—L. F. Maxwell, City Clerk, states that an election was held on Aug. 12 to vote on the proposition of establishing a municipal electric lighting plant in this city.

SELMA, ALA.—The Selma Street & Suburban Railway Co. may soon begin construction of proposed power plant. It is reported that a dam will be constructed on Mulberry Creek in Autauga County to generate power, which will be transmitted by electricity for operating the company's railway and for lighting purposes. F. M. Abbott is Pres. and Pur. Agt.

KNOXVILLE, TENN.—The Knoxville Power Co. will undertake the construction this fall of its proposed water-power electric plant. It is said that this proposition involves the construction of a dam 80 ft. high and 500 ft. long, a tunnel 5,700 ft. long and three miles of canal, to develop 40,000 HP., to be transmitted by electricity for power and lighting. The plant will be located on Little River, 40 miles from Knoxville. Chas. H. Treat, Washington, D. C., is Pres. John T. Wilder, Knoxville, is Gen. Mgr.

LAWRENCEBURG, TENN.—Bids will be received until Aug. 20 by Jas. T. Dunn, City Secy., for $25,000 of water and light bonds.

NEWPORT, KY.—The City Council is reported to be in favor of establishing a municipal electric light plant.

MILTON, OHIO.—Bids are asked by John Coate, Village Clerk (post-office address, West Milton), until Sept. 16, for lighting the village with 30 enclosed arc lamps and a few incandescent lamps in clusters. The successful bidder will be given a franchise and commercial lighting privilege.

ARLINGTON, OHIO.—O. T. Castor, Village Clk., states that bids for bonds, also construction of electric light plant, will be opened on Aug. 27 by the Village Council.

INDIANAPOLIS, IND.—The trustees of the Woman's Prison will receive bids at the office of R. P. Daggett, Arch., 804 Lemeke Bldg., until Aug. 28, for the installation of a heating and lighting plant in the Woman's Prison. Fannie McKee, Pres.

PRINCETON, IND.—The PRACTICAL GAS CONSTRUCTION CO., of North Chicago, Ill., has secured the contract for constructing an artificial gas plant for the Consumers' Gas & Light Co. Cost, about $60,000. Noted on Aug. 1. J. A. Bower is Gen. Mgr. of the construction company.

PERU, IND.—The Peru Chemical Gas Co. has been incorporated to construct and equip an artificial gas plant. J. O. Cole, Wm. Hart and J. T. Armitage are the directors.

WYANDOTTE, MICH.—Jas. G. Pinson, City Clerk, states that the citizens voted on July 29 to issue $20,000 of bonds for improving the municipal electric light plant. A. S. McClinahen is Supt.

BAY CITY, MICH.—The Common Council has decided to remove the East Side electric lighting station from its present location at Eleventh and Jefferson Sts. to the old waterworks building on the west side of the river. The proposed change will cost $30,000, with a saving of $5,000 a year in fuel and other expenses now necessary. Wm. H. Fitzhugh is Mgr. and Ch. Engr.

BOVEY, MINN.—Frank McCormick, of Duluth, has been granted a franchise to operate an electric lighting plant in this place.

DAWSON, MINN.—See under Water Supply—Irrigation.

WOOD RIVER, NEB.—The City Council is reported to have decided to construct a lighting plant and water-works system.

FREMONT, NEB.—The City Council has decided to construct a new electric light and water-works station, at an estimated cost of about $65,000. The plant is to be ready for operation by Nov. 15. C. A. Chapman is Consult. Engr. J. H. Matthews is Supt. and Mgr. of city water and electric light plant.

SIOUX FALLS, S. DAK.—The Sioux Falls Light & Power Co. will construct a dam and hydro-electric power plant at Sioux Falls, to develop 3,300 HP., at an estimated cost of $200,000. In connection with this plant the company expects to construct a storage reservoir at Lake Poinsett, S. Dak., about 100 miles north, to regulate the flow of the Big Sioux River. The cost of this latter work is estimated at about $65,000. Surveys of Lakes Poinsett and Kampeska will be made under the direction of Samuel H. Lea, State Engr., Pierre, S. Dak.

LA MOORE, N. DAK.—An electric light plant will be erected in this city.

RUSSELLVILLE, ARK.—We are officially advised by Edwin Cook, Engr., 401½ Main St., Pine Bluff, Ark., has prepared plans and specifications for a masonary and concrete dam for the Russellville & Ozark Mountain Traction, Light & Power Co., to be constructed across the Illinois Bayou near Russellville. Plans and specifications can be seen at engineer's office, Pine Bluff, or at Brooks & Hayes' office, Russellville. Bids are asked until Aug. 24. Bidders are requested to visit site where dam is to be constructed. (Abstract also under Electric Railways in this issue.)

ROCKDALE, TEX.—Plans are being formed to establish electric power enterprises. A syndicate of electrical interests, represented by Joseph Henry, of Denver, Colo., is arranging to invest not less than $3,000,000 in the erection of a power plant here and building transmission lines to cities and towns in adjacent territory. It is proposed to use the lignite for fuel, and options have been obtained upon a number of the principal mines in this territory by Mr. Henry and associates. It is claimed that the cost of fuel with the power plant located here will not exceed 50 to 75 cts. per ton. A system of transmission lines is to be built to cities within a radius of 75 miles and power furnished for industries. Power and lighting contracts are now being made with towns and industrial concerns in the territory to be reached by the proposed system. It is stated that the prospects are favorable for enough business being obtained in Waco, Austin, Taylor, Bolton, Temple, Cameron, Bryan and Marlin alone, to justify the establishment of the plant. There are many smaller towns which may use lights and power.

RED FORK, IND. T.—The Red Fork Power & Development Co. will build an electric power plant, it is stated, expending about $100,000 for buildings and equipment of machinery. The company is planning to locate factories, to construct artificial lake with a water surface of 111 acres, build amusement resorts, etc. F. L. Smart is Pres.; Graham Burnham, Vice-Pres. and Gen. Mgr., and J. E. Dunn, Treas. J. Robert Burnham is Engr.-in-Charge.

SILVER CITY, N. MEX.—A. D. Coleman, Electrical Engr., 1608 Amsterdam Ave., New York, in care of Trimfdi, states that the Forest Power Co., of which D. E. Woods is Pres., will construct an electric plant, to cost about $250,000. Noted on July 25.

WENATCHEE, WASH.—Arthur Gunn, Pres. of the Wenatchee Electric Co., has applied to the City Council for a franchise for a gas plant for the city of Wenatchee. The matter was referred to the corporation committee.

TACOMA, WASH.—Bids were received as follows on July 31 by Owen Woods, Comr. of Public Works, for the construction of the municipal power plant: Geo. Milton Savage Co., hydraulic power plant of 10,000 HP., $1,750,000; steam turbine plant of 4,000 HP., $440,000. Jas. C. Drake, steam or turbine plant of 4,000 HP., $500,000. The bids were submitted to Council to select the best bid with the view of submitting the proposition to the people.

ALBANY, ORE.—James Steel, of Portland, has applied to the City Council here for a 25-year franchise. He says that if this is granted, he will, within three months, begin the erection of a plant, to be completed within a year.

SAN BERNARDINO, CAL.—The San Bernardino Gas & Electric Co., controlled by the Pacific Light & Power Co., of Los Angeles, is to spend $17,000 at once in enlarging its street plant, it is reported. G. O. Newman is Ch. Engr., Los Angeles.

CAMPBELLFORD, ONT.—Bids are asked until Sept. 5 (extension of date), by W. J. Doxsee, Mayor, for rock-cutting, concrete work, turbine wheels, generators, etc., for 4,000 HP., and about 2¼ miles of transmission line for power development at Middle Falls on the Trent River. John S. Fielding, Consulting Engr., 15 Toronto St., Toronto. Noted last week.

VANCOUVER, B. C.—The British Columbia Power & Electric Co., Vancouver, B. C., is contemplating developing water power on the Cheakamus River, at the head of Howe Sound. Hermon & Burwell, Hydraulic Engrs., have made a report on the power. Three development schemes are outlined in this report, one by means of which 100,000 HP. can be secured under a head of 585 ft.; another, which will give 75,000 HP. at head of 400 ft., and a third whereby 20,000 HP. at a head of 115 ft. can be secured. The report shows that the power plant will be located 16 miles from tidewater and two routes are open for the transmission line to Vancouver, one along the eastern shore of Howe Sound and northern shore of the English bay and the Inlet to the Second Narrows, and the other via the valley of Seymour Creek to the Second Narrows. The distances are 61 and 47 miles respectively. It is proposed to transmit at 50,000 volts.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The Board of Supervisors has let contract for furnishing planking for the South End and St. James Ave. bridges to the E. A. BLODGETT LUMBER CO., of this city. Roswell L. Gardner is City Engr.

WATERBURY, CONN.—The following bids were received July 30 by the Board of Public Works for constructing steel concrete bridge over Mad River at Liberty St.: Edward McManus, $16,116; Gardner G. Riggs, $15,718, and Fred T. Ley & Co., Springfield, Mass., $15,171. Robert A. Cairns is City Engr.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien Comr., until 2 p. m., Aug. 21, for constructing piers for two bridges across Wantagh Stream.

MEDFORD N. J.—The County Freeholders have let contract for constructing bridge at Kirby's Mills, near Medford, to the NEW JERSEY & WEST VIRGINIA BRIDGE CO., for $4,675.

BEAVER, PA.—The Pittsburg & Lake Erie R. R. Co. will probably construct cantilever bridge over Ohio River, between Monaca and Beaver. J. A. Atwood, at Pittsburg, Pa, is Ch. Engr.

EMPORIA, PA.—Bids are asked until Aug. 20 by the Board of County Commissioners, J. W. Lewis, Chn., for constructing substructure and superstructure of a highway bridge in Shippen Township.

PHILADELPHIA, PA.—The Pennsylvania R. R. Co. has awarded contract for constructing elevated structure and bridges on Trenton Ave., between Cambria and Venango Sts., to JAMES McGRAW & CO., 4707 Baltimore Ave., Philadelphia. Alex. C. Shand, at Philadelphia, is Ch. Engr.

HARRISBURG, PA.—The Board of Public Works has let contract for reconstructing the reinforced concrete Mulberry St. bridge to McCORMICK & CO., 14 South Broad St., Philadelphia, Pa., for $260,046. M. B. Cowden is City Engr.

WASHINGTON, PA—The Pennsylvania R. R. Co. will construct concrete bridge across Monongahela River and the Washington branch. The bridge will be constructed on solid rock, 35 ft. below level of the pike, 40 ft. wide, with 80-ft. span and footwalk on south side. The approaches will be 50 ft. in length and constructed of solid concrete. Estimated cost, $20,000. A temporary bridge will also be constructed. Alex. C. Shand, at Philadelphia, is Ch. Engr.

WASHINGTON, D. C.—The following bids were received Aug. 10 by the District Commissioners for construction of bridge over the Baltimore & Ohio R. R. tracks, on line of Monroe St., extended: C. B. Clark & Co., 10 East Lexington St., Baltimore, $32,400; Penn Bridge Co., Beaver Falls, Pa., $35,144; James J. Overn, 335 Delaware Ave., N. E., Washington, $34,500.

MORGANTOWN, W. VA.—The County Court has let contract for constructing steel bridge over Hartman's Run to the CANTON BRIDGE CO, Canton, Ohio, for $10,500.

GREENVILLE, S. C.—Bids are asked by J. P. Goodwin, Superv. of Greenville County, and S. O. Jackson, Superv. of Anderson County, until Aug. 20 for constructing two bridges across Saluda River.

LAURENS, S. C.—The Charleston & Western Carolina Ry. Co. will construct steel viaduct across South Tyger River, between Laurens and Spartanburg. Estimated cost, $40,000. G. G. Lynch ,of Augusta, Ga., is Gen. Supt. A. H. Porter, of Augusta, is Roadway Engr.

ELBERTON, GA.—The Commissioners of Elbert and Wilkes Counties have let contract for erecting steel bridge across Broad River at Bell's Ferry to the ROANOKE BRIDGE CO., of Roanoke, Va., for $4,725.

HATTIESBURG, MISS.—The following bids have been received by the City Council for constructing four steel bridges across Gordon Creek, at West Pine, Busman and Main Sts. and River Ave.: Vincennes Bridge Co., Vincennes, Ind., $13,115; Ottumwa Bridge Co., $13,805; Virginia Bridge & Iron Co., Roanoke, Va., $13,795; American Bridge Co., 42 Broadway, New York, $14,986; Missouri Valley Bridge & Iron Wks., Leavenworth, Kan., $14,988; Joliet Bridge & Iron Co., Joliet, Ill., $14,840; Converse Bridge & Iron Co., $13,650; Penn Bridge Co., Beaver Falls, Pa., $10,885; Midland Bridge & Iron Co., $20,600, and Southern Bridge & Iron Co., $14,845. Richard C. Huston is City Engr.

SHREVEPORT, LA.—Plans will be prepared by Ira G. Hendric for constructing highway drawbridge across Red River, between Shreveport and Bossier Parish. The river is 1,000 ft. wide at this point.

*CATLETTSBURG, KY.—Bids are asked by Maj. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, Ohio, until 2 p. m., Sept. 3, for constructing service bridge at Lock No. 1, Big Sandy River, Catlettsburg.

JEFFERSON, OHIO.—Bids are asked by the Board of County Commissioners until 1 p. m., Sept. 2, for constructing reinforced concrete bridge at the State Road, Hartsgrove Township. J. S. Matson is County Surv.

SANDUSKY, OHIO.—Bids are asked until Aug. 23 by the Board of County Commissioners for constructing bridge over Mills Creek at Monroe St. Chas. Kubach is County Audr.

YOUNGSTOWN, OHIO.—Bids are asked until Aug. 19 by the Board of County Commissioners for constructing riveted highway bridge over Beaver Creek in Goshen Township. W. B. Jones is County Audr.

HAMILTON, OHIO.—The County Commissioners have awarded contract for constructing riveted truss bridge in Madison Township to the OREGONIA BRIDGE CO.

COLUMBUS, OHIO.—Bids are asked by the County Commissioners until Sept. 4 for the following bridge work: Engineer's estimate No. 818—Superstructure and roadway construction of the Holt bridge in Franklin Township. No. 819—Concrete encasing of pier of Chenoweth Mill Bridge in Pleasant Township. No. 820—Hauling and spreading furnace slag on east approach of Clickenger Bridge in Hamilton Township.

MASSILLON, OHIO.—The Board of County Commissioners has let contract for constructing concrete bridge at West Tremont St. to E. J. LANDOR, of Canton, Ohio, for $24,000.

TERRE HAUTE, IND.—Bids are asked by the Board of County Commissioners until 11 a. m., Aug. 24, for constructing the Fletcher Chappel bridge. The bridge to be constructed of concrete, steel reinforced, with 35-ft. span and elliptical arch type. Jerome W. Denehie is County Audr.

EAST ST. LOUIS, ILL.—We are officially informed that the Board of Local Improvements has awarded contract for repairing the Broadway viaduct across Cohopia Creek to the RUDE ENGINEERING CO., of this city, for $52,680. Bids were also received Aug. 1 from the following: Union Bridge & Construction Co., Kansas City, Mo., $53,175; Pan-American Bridge Co., New Castle, Ind., $63,704, and Wright-Gallagher Construction Co., Chemical Bldg., St. Louis, Mo., $55,748. W. J. Crocken is City Engr.

KANSAS CITY, MO.—The County Court has decided to construct three steel bridges.

NEVADA CITY, COL.—JENKINS & WELLS, of Sacramento, have been awarded contract for constructing steel bridge across Trout Creek. Fred. M. Miller is County Surv.

DENVER, COLO.—A viaduct will be constructed at Wazee and 19th Sts. to North Denver. Estimated cost, $40,000. John B. Hunter is City Engr.

GALLUP, N. MEX.—The County Commissioners have let contract for constructing bridge across Rio Puerco to W. HESSELDON.

LOWELL, ORE.—The County Commissioners have let contract for constructing bridge across Willamette River at Lowell to L. N. RONEY, for $6,295.

LONGBEACH, CAL.—The contract for constructing bulkheadings and abutments of the Salt Lake drawbridge over mouth of San Gabriel River has been let to the ATLANTIC, GULF & PACIFIC CO.

OAKLAND, CAL.—The Board of Supervisors has let contract for constructing bridge across Peralta Creek, at East 14th and Prospect Sts., to W. N. WHITMORE.

FAIROAKS, CAL.—The Board of County Supervisors has received bids for constructing the Fairoaks bridge across American River near Fairoaks, as follows: E. E. Berry, $100,000; James McGilvray and E. O. Brge, $98,900; Cotton Bros., $97,000; C. J. Matthews, $94,500; Midland Bridge Co., Kansas City, Mo., $93,970; Healey, Tibbets & Co., $92,970; Pacific Construction Co., $89,357; Burrel Bridge & Construction Co., $88,400; Clark & Henry, $88,400, and Murvy & Elwell, $85,300.

WOODLAND, CAL.—We are officially advised that the following bids were received Aug. 1 by the clerks of Yolo and Solano Counties, at Woodland and Fairfield, for constructing reinforced concrete bridge across Putah Creek: W. N. CONCANON, Fairfield, Cal., $46,903 (awarded contract); F. P. Smith & Bro. and W. S. C. Stevens, $54,669; Pacific Construction Co., $47,793, and Healy, Tibbets & Co,, $39,866. C. F. Hadsall is Clerk of Yolo County.

INGOT, CAL.—Bids are asked by the Board of Supervisors, S. N. Witherow, Clk., until 10 a. m., Sept. 3, for constructing stringer and truss bridge across Cow Creek at Ingot.

WINNIPEG, MAN.—Bids will soon be asked by the Board of Control for construction of steel bridge in connection with the Point du Bois electrical development. Estimated cost, $40,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—James T. Kelley, Arch., 57 Mt. Vernon St., will have plans ready about Sept. 1 for a 15-room school house in the West End. Estimated cost, $358,000. Hubbard & French, Consult. Engrs., 85 Beach St.

CHELSEA, MASS.—The contract for a hospital building in connection with the Soldiers' Home has been let to the GEORGE HOWARD & SONS CO., Brockton, Mass., at $175,000. Clough & Wardner and C. E. Patch, Archs., 52 Kilby St., Boston.

HARTFORD, CONN.—The State Arsenal and Armory Commission on Aug. 2 awarded contract for building armory on the roundhouse site to A. R. WHITNEY, JR. & CO., 135 Broadway, New York, for $463,884. This provides for a granite or marble exterior, for oak interior, for emergency gas lighting in the drill room and for plate glass. The commission advised that some light colored stone be used to harmonize with the Capitol and proposed library. Benj. W. Morris, Arch., 5 West 31st St.

NEW YORK, N. Y.—Plans have been filed with building superintendent for a new 5-story Home and Institute for Seamen, to be built at Jane and West Sts. by the American Seamen's Friend Society, of which the Rev. Charles Augustus Stoddard is head. The interior arrangement will comprise a restaurant and a swimming pool in the basement, an assembly hall and a chapel and reading room on the main floor and social halls and dormitories on the upper stories. There will also be a large bowling alley in an extension. The building is to cost $150,000. Boring & Tilton, 32 Broadway, are Archs.

NEW YORK, N. Y.—Bids were received on Aug. 12 by the Board of Education for installing (a) electric equipment and (b) heating and ventilating apparatus in public schools as follows: No. 66 (a)—Griffin & Co., 150 Nassau St., $12,594; Peet & Powers, 225 Fourth Ave., $12,368; T. Fredk. Jackson, 592 Columbus Ave., $11,785. No. 91 (a)—Peet & Powers, 225 Fourth Ave., $15,456; Griffin & Co., 150 Nassau St., $15,394. No. 13, Boro. Richmond, (b)—R. J. Sovereign, 63 Fifth Ave., $37,279; Blake & Williams, 211 West 20th St., $30,699; Frank Dobson Co., 319 East 53d St., $30,450; Wm. J. Olvaney, 177 Christopher St., $33,380.

F. Kellogg, 104 East 16th St., has prepared plans and is receiving estimates for alterations and 5-story brick addition to loft buildings, at 9-15 Park Pl., for the American News Co., 39 Chambers St. Cost, $150,000.

NEW YORK, N. Y.—Charles C. Haight, 452 Fifth Ave., has prepared plans for an armory, to be erected at 168th St. and Franklin Ave., for the Second Battery, National Guard. Cost, about $400,000.

Schwartz & Gross, 35 West 21st St., are preparing plans for a 12-story apartment building, 75 x 100 ft., on 116th St., west of Broadway, for Paterno Bros., 616 West 116th St. Cost, $200,000.

Plans have been filed by McKim, Mead & White, Archs., 160 Fifth Ave., for enlarging the Metropolitan Museum of Art in Central Park. The additions will be two and three stories high, brick and stone, one annexed to the museum library on the south, 116 x 183 ft.; the second to be added to the exhibition halls on the north, 54 x 119, and the third to be 15 ft. frontage and 21 ft. deep at the east of the Hall of Sculpture. The three additions are to cost $450,000.

Schwartz & Gross, Archs., 35 West 21st St., are preparing plans for a 12-story brick, limestone and terra cotta store and loft building, 50 x 92 ft., at 48 and 50 West 21st St., for the Fischel Realty Co. Cost, about $200,000.

Boring & Tilton, Archs., 32 Broadway, will receive estimates for steam heating and plumbing for a schcol building for the New York Protestant Episcopal School. Cost, $200,000.

Chas. H. Schumann, 280 Broadway, will receive new bids for a 6-story red brick and stone bank building, 57 x 100 ft., at Tremont and Park Aves., for the Bronx Safe Deposit Co., on premises. Cost, $100,000.

NEW YORK, N. Y.—Samuel Sass, Arch., 23 Park Row, has completed plans for five 6-story brick and limestone tenement buildings, 40 x 100 ft., on South First St., near Marcy Ave., Borough of Brooklyn, for Leizerkowitz & Halprin, 935 Myrtle Ave., Boro. Brooklyn. Cost, about $200,000.

Neville & Bagge, Archs., 217 West 125th St., are preparing plans for a 10-story apartment building, brick and stone, fireproof, 100 x 125 ft., at Broadway and 112th St., for the Hall Realty Co., 3078 Broadway. Estimated cost, $750,000.

Radcliffe & Kelly, 3 West 29th St., are preparing plans for a 5-story apartment building, brick and stone, at 322 Third Ave., for William Bradley, 329 West 68th St. Cost, $125,000.

It is reported that the Dayton Construction Co., 437 Fifth Ave., will soon receive estimates on a 12-story studio building, to cost $1,000,000, 100 x 80 ft., on 77th St., east of Columbus Ave., for the Stuyvesant Co-operation Buildings. Brick and terra cotta, fireproofing, plate glass, tile and marble work, electric light fixtures and plumbing.

Warren & Wetmore, Archs., 3 East 33d St., will prepare plans for an institute at Coenties Slip and South St., for the Seamen's Church Institute of the port of New York, to cost approximately $350,000.

The Fleischmann Realty & Construction Co., 170 Broadway, is receiving estimates for a 12-story bank and office building, brick and stone, fireproof, 36 x 136 ft., at 507 Fifth Ave., to cost about $300,000. Also for three brick and stone 6-story store and flat buildings, 100 x 125 ft., at Old Broadway and 130th St., to cost $150,000.

NEW YORK, N. Y.—Bids are asked by Arthur J. O'Keeffe, Act. Police Comr., until 10 a. m., Aug. 26, for furnishing all the labor and furnishing and erecting all the materials necessary to build and complete the alterations to the interior arrangement (excepting as to heating and ventilating system, boilers and steam piping) of the new building on the block bounded by Grand, Centre and Broome Sts. and Centre Market Pl., Boro. of Manhattan, for headquarters for the police department.

Bids are asked by Hugh Bonner, Deputy Fire Comr., until 10:30 a. m., Aug. 23, for alterations and additions to several volunteer firehouses in Boro. Queens.

Bids are asked by Hugh Bononer, Deputy Fire Comr., until 10:30 a. m., Aug. 28, for furnishing all the labor and materials required for the erection and completion of a new building for an engine company to be located on White Plains Ave., south of 230th St., (16th Ave.), Boro. of the Bronx, and for furnishing all the labor and materials required for the erection and completion of a new building for an engine and hook and ladder company at Rockaway Ave. and Ave. F, Boro. Brooklyn.

JAMAICA (L. I.), N. Y.—The Jamaica & Long Island Realty Co., 187 Montague St., Brooklyn, may build a combination 6-story hotel and theater in Jamaica to cost about $250,000. Ernest M. Hungerford is Secy.

ALBANY, N. Y.—The M. L. RYER BLDG. CO., 356 State St., Albany, has the contract to erect the First National Bank Building at 35 State St.; the JAS. HUNTER HEATING & CONSTRUCTION CO., 1 Church St., the contract for the heating plant in this building, and M. DELAHANTY'S SON, 32 Green St., the contract for the plumbing. The total cost of the work is to be about $125,000.

BROOKLYN, N. Y.—General contract has been awarded to HENRY F. BOOTH, 1123 Broadway, New York, for a church, at Parkville, Boro. of Brooklyn, for the Church of St. Rose of Lima. Cost, about $100,000.

PHILADELPHIA, PA.—The Women's Medical College, 21st and North College Ave., has plans ready for bids for a 7-story hospital building, at the above location. Brick and steel, stone trimmings, fireproof.

THOMAS M. SEEDS, JR., 1207 Race St., has been awarded a contract by Newman & Harris, Archs., Land Title Bldg., for the extensive alterations and additions that are to be made to the Art Club, at Broad and Chancellor Sts. The plans provide for a 6-story addition in the rear, to measure 40 x 60 feet, and covering the area occupied by the art gallery. Cost, $100,000.

PITTSBURG, PA.—Plans are being prepared by the Baltimore & Ohio R. R. Co. for a warehouse system to cost $3,500,000 in the Twelfth Ward. St. Stanislaus' Roman Catholic Church property has been thought of as the site. The company will erect three buildings, each eight stories high, equipped with refrigerating plants. The land for the warehouse will cost $1,500,000 and the buildings $2,500,000. D. D. Carothers, Baltimore, Md., is Ch. Engr.

GREENSBURG, PA.—It is reported that the Westmoreland National Bank will erect a $200,000 banking house on Main St., Greensburg, from plans made by Topp & Blair, Westinghouse Bldg., Pittsburg.

WASHINGTON, D. C.—Bids are asked by Maj. J. T. Crabbs, Quartermaster, Walter Reed Army General Hospital, Takoma substation, until Aug. 23 for construction, including plumbing, gaspiping and electric lighting, double set of hospital corps sergeants' quarters.

Three airing sheds for the equipment of Pullman cars, a storehouse and a power house are to be built near the new union station. One of the buildings is already begun, near the T St. bridge, N. E. According to the contract awarded to EDWARD BRADY & SON, of Baltimore, by the Baltimore and Ohio R. R. Co., the total cost will be $200,000. The airing sheds will be 300 feet long, covered with a glass roof, so that the bed clothing and table linen may be spread in the sun. The storehouse is to be four stories high, made of brick and concrete. It will be used for car supplies, provisions, etc., and will contain rooms for employes.

BALTIMORE, MD.—A 1-story addition will be made to the post-office. Appropriation, $125,000.

McIver & Piel, builders, 2315 Edmondson Ave., have completed plans for 50 2-story dwellings to be erected on Edmondson Ave., between Second and Fourth Sts. Buildings will be of brick with bay windows and porch fronts. Estimated cost, $100,000.

EDWARD BRADY & SON have been awarded contracts by the Merchants & Miners' Transportation Company for the erection of a group of buildings on Pier No. 3, which has been leased by the above company from the city for a long term of years. The structures will comprise a 2-story office building, 75 × 78 feet, and two storage sheds, one measuring 72 × 652 ft. and the other 72 × 741 ft. The buildings are to be of timber framing and covered with corrugated sheet iron. The improvements are estimated to cost about $100,000.

PENSACOLA, FLA.—Bids will be received about Oct. 1 for construction of bank building for American National Bank. It will be 90 × 90 ft., ten stories, brick and terra cotta, fireproof construction. Cost, about $225,000. Carpenter, Blair & Gould are Archs., 475 Fifth Ave., New York.

MONTGOMERY, ALA.—N. J. Bell has had plans prepared by Ausfelt & Blount for erection of proposed office building, ten stories, of brick and stone construction, with plate glass, marble, mosaic and tile work, gas and electricity, plumbing. Cost, $200,000. Bids are being received by architects.

MEMPHIS, TENN.—Contract to erect the 9-story fireproof hotel for Isele Bros. has been awarded to the SELDEN-BRECK CO., of Memphis, at $364,633, it is stated.

HODGENVILLE, KY.—John Russell Pope, Arch., 1133 Broadway, New York, is preparing plans for a 1-story marble museum, at Hodgenville, for the Lincoln Memorial Association. Probable cost, $150,000.

HAMILTON, OHIO.—Bids are asked until 3 p. m., Sept. 24, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, for the construction (including plumbing, gas-piping, heating apparatus, electric conduits and wiring) of the U. S. post-office building at Hamilton.

ATHENS, OHIO.—Bids are asked by the Athens Masonic Temple Co. until 1 p. m., Aug. 31, for the construction of a 4-story Masonic temple. Plans, etc., at office of secretary and at office of Elmer L. Gerber, Arch., Dayton, Ohio. W. E. Peters, Secy.

Bids are asked until noon, Aug. 20, for an addition and alterations in the main building at the Athens State Hospital, Athens. Dr. J. T. Hanson, Supt., Athens State Hospital. Frank L. Packard, Arch., Columbus, Ohio.

DETROIT, MICH.—The Great Eastern Sanitarium Co. has been organized with a capital of $200,000. It is preparing to build and equip a first-class sanitarium in the vicinity of Jefferson and the water-works park. Dr. Scott B. Hambly, 203 Field Ave., is Secy. and Gen. Mgr.

John Scott & Co., Archs., 517 Moffat Bldg., are preparing plans and will soon receive bids for an 8-story warehouse, 108 × 200 ft., at Fort St. and M. C. R. R., for Lee, Cady & Smart, 108 and 110 West Larned St. Estimated cost, $130,000.

NEGAUNEE, MICH.—Bids are asked until Aug. 22 by Cyrille Houle, Secy. School Bd., for erecting a high-school at Negaunee. John D. Chubb, Arch., 112 Clark St., Chicago, Ill. Separate bids will be received, at the same time and place, for plumbing, sewerage and gas-fitting for above school.

BATTLE CREEK, MICH.—Plans have been prepared by Mills & Pruitt, McCune Block, for a 2-story school building, 240 × 155 ft., for the Board of Education, Battle Creek, Mich. Cost, $200,000.

CHICAGO, ILL.—Gatterdam & Sibbett, 163 Randolph St., have prepared plans and will receive bids for a 30-apartment building, at Humboldt Boulevard and Shakespeare Ave., for I. Schwinn, 945 North 43d Ave. Cost, about $90,000.

W. Carbys Zimmerman, Arch., Steinway Hall, Chicago, has prepared plans for new buildings to be erected in connection with four of the principal State institutions, in accordance with appropriations made at the last session of the legislature. Two cottages are to be erected at the Soldiers' Home in Quincy. They will be two stories high and of brick and stone, and cost $110,600. In connection with the Illinois Western Hospital for Insane at Watertown plans are being prepared for a 2-story and 3-story building to cost $100,000. For the Illinois General Hospital for the Insane, at Bartonville, plans are being prepared for a 2-story hospital. It will cost $88,000. See Elgin, Ill., also.

Richard E. Schmidt, 172 Washington St., is reported to be preparing plans for a hospital to be built at Congress and Lincoln Sts., for the University Hospital, represented by Dr. A. K. Steele.

Huehl & Schmidt, Archs., 163 Randolph St., have prepared plans and will take estimates for a warehouse at La Salle and Ohio Sts., for the Home Herald Co., 110 La Salle Ave. It is to be seven stories high, built of brick, stone and steel, with terra cotta trimmings. Estimated cost, $150,000.

The CHICAGO CANAL & DOCK CO. will build for the Furniture Exhibition Co. a 7-story warehouse, 270 × 120 ft., adjacent to the company's building on the north pier, between the Michigan slip and the Chicago & Northwestern tracks. Plans for the new building are now being prepared by C. A. Eckstrom, Arch., Tacoma Bldg. It will cost $300,000.

Wm. J. Brinkman, Arch., 163 Randolph St., has prepared plans for a church at 51st and Throop Sts., for the Polish Catholic Church, Rev. J. G. Jendrijejek. To be two stories high, 75 × 210 ft., built of press brick. Cost, about $250,000.

DECATUR, ILL.—Bids are asked until noon, Aug. 18, by E. R. Wright, Secy. Pythian Home Bd., Taylorville, for furnishing material and erecting the Illinois Pythian Home at Decatur. Bids to be submitted on the following: General contract; ventilating and heating; plumbing, sewerage and gas fitting; electric work. Plans and specifications may be had from Deal & Ginzel, Archs., Lincoln, upon a deposit of $10.

MILWAUKEE, WIS.—R. E. Schmid, Arch., 172 East Washington St., Chicago, is taking figures for a hospital building for the Sisters of Charity of St. Mary's Hospital, at Milwaukee, which will cost about $200,000.

CEDAR RAPIDS, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Sept. 23, for the construction (except elevator) of an extension, remodeling, etc., to the U. S. post-office and court-house at Cedar Rapids.

ST. PAUL, MINN.—J. Walter Stevens, Arch., 905 N. Y. Life Bldg., is preparing plans for a 6-story pressed brick and cut stone, reinforced concrete, fireproof, cold storage warehouse on Third St., to be built here for Newton R. Frost, 216 German Life Bldg., City. It will be 82 × 125 ft., having steam heating, electric lighting and elevators. Cost, $100,000.

MINNEAPOLIS, MINN.—E. L. Masqueary, Arch., Dispatch Bldg., St. Paul, Minn., has awarded the contract for grading, excavating and building the foundation for the new Roman Catholic Pro-cathedral on Hennepin Ave. and 16th St., to PIKE & COOK, 416 South Fifth St., at their bid of $68,800. The cathedral will cost, completed, $500,000.

The Board of Regents, of the State University, it is stated, has secured land for the university hospital, at Washington Ave. S. E., Pleasant and State Sts. A fireproof memorial hospital will be erected, costing $115,000.

ANTHONY, KAN.—Bids are asked by the board of commissioners of Harper County, at office of R. P. Chevraux, County Clk., until noon, Aug. 28, for the construction of a court-house. Geo. P. Washburn & Son, Archs., Ottawa, Kan. Henry Krider, Chn.

LA MOURE, N. DAK.—Plans and specifications will be received by the Board of County Commissioners until 10 a. m., Oct. 3, for a court-house, to cost between $60,000 and $100,000. E. W. Field, County Audr.

EXCELSIOR SPRINGS, MO.—The general contract has been given to TURNER BROS. for constructing hotel for the Elms Realty Co., Excelsior Springs. Cost, $200,000. Louis G. Curtis, Kansas City, Mo., is Arch.

KANSAS CITY, MO.—A brick store building will be erected at Walnut and Ninth Sts. by D. Ricksecker. Estimated cost, $100,000.

ST. LOUIS, MO.—Plans will be prepared by William Gruen, Arch., Chemical Bldg., for constructing 3-story turner hall for the Tower Grove Turnerverein, E. A. Braun, Secy. Cost, $100,000.

Bids are being received by A. B. Groves, 314 North Fourth St., Arch., for constructing 12-story hotel for James H. McTague. Cost, $400,000.

Isaac Taylor, 715 Locust St., Arch., is preparing plans for constructing 4-story municipal building for the Board of Public Improvements, W. B. Dryden, Secy. Cost, $2,000,000.

A 15-story hotel will be erected at Eighth and St. Charles Sts., to be known as the St. Charles Hotel. J. B. Legg, 715 Locust St., St. Louis, is Arch.

ST. LOUIS, MO.—Plans have been accepted by the Knights of Columbus for constructing club-house, 50 × 145 ft., five stories, six stories on ground floor, with 40 × 100 ft. auditorium. Cost, $110,000. Baker & Knell, Olive and Ninth Sts., are Archs.

The Board of Public Improvements will build almshouses, 107 ft. square, three stories, brick, stone and reinforced concrete, fireproof, iron and steel work. Cost, $150,000. Drischler & Elsner, Wainwright Bldg., are Archs.

FT. SMITH, ARK.—Bids are asked until Aug. 28 by C. D. Mowen, Secy. Ft. Smith Hotel Co., for erecting 6-story, 160-room, reinforced concrete hotel. Herbert E. Hewitt, 22 Arcade Bldg., Peoria, is Arch.

TEXARKANA, ARK.—The State Savings & Trust Co. has awarded contract to HUGH McCLENNAN, of Chicago, Ill., for erection of 5-story office building, 50 × 127 ft., stone, fire-clay and steel, fireproof. Cost, $150,000.

The general contract for constructing office building for the Union Real Estate Co. has been let to HUGH McCLENNAN, 166 Dearborn St., Chicago, Ill. The building will be six stories, 50 × 127 ft., constructed of brick and stone. Cost, $150,000. Sanguinet & Staats, Ft. Worth, Tex., are Archs.

SAN ANTONIO, TEX.—The International & Great Northern R. R. Co. has let general contract to JAMES STEWART & CO., Lincoln Trust Bldg., San Antonio, for constructing 2 and 3-story brick and stone station, at San Antonio, Tex. Cost, $200,000.

SAN ANTONIO, TEX.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has rejected all bids received on July 2 for construction of an extension to the post-office building at San Antonio, Tex.

FORT WORTH, TEX.—The Missouri, Kansas & Texas Ry. Co. has decided to construct freight depot. Cost, $100,000. A. A. Allen is Gen. Mgr., and J. J. Petheram, Ch. Engr., both of Dallas, Tex.

HOUSTON, TEX.—The Houston Belt & Terminal Co. will soon construct freight and passenger stations. W. E. Green is Pres.

OKLAHOMA CITY, OKLA.—H. P. Harter and Henry M. Scales have accepted plans and specifications for 7-story steel-frame and concrete construction fireproof office building, to cost $100,000. Wm. Stevens, of D. H. Burnham & Co., Chicago, Ill., is Arch.

DENVER, COLO.—The members of the Chamber of Commerce are said to be planning the erection of a $300,000 building.

SEATTLE, WASH.—The Ferry-Leary Land Co. will soon begin construction of a 15-story store and office building at Second Ave. and Madison St. It will cost $800,000. William S. Eames is Arch. The JAMES BLACK CONSTRUCTION CO. will be the contractors.

SPOKANE, WASH.—H. J. SKINNER has been awarded the contract for the erection of the 7-story reinforced concrete building which I. N. Peyton will build at the northeast corner of Sprague Ave. and Post St. The contract was awarded on a percentage basis, the estimated cost of the building being $150,000. Sweatt & Wentzel are Archs.

TACOMA, WASH.—Peter Sandberg has taken out a permit for the erection of a 12-story building to be erected on the northeast corner of 15th St. and Pacific Ave., at a cost of $218,000.

G. W. Bullard, Arch., Provident Bldg., states that bids will be received about Sept. 1 for the erection of the Y. M. C. A. Building.

Edmund Croft, John C. Donnelly and others are reported interested in the erection of a 23-story building on C St., to cost about $2,000,000.

REDWOOD CITY, CAL.—Bids were received until July 29 for erecting a court-house. We are officially advised that contract was awarded to the J. J. O'BRIEN CONSTRUCTION CO., of San Francisco, at $160,000. Joseph H. Nash is County Clerk. Glenn Allen, 330 Turk St., San Francisco, is Arch.

LOS ANGELES, CAL.—The contract for ornamental wrought iron and cast bronze, for Hamburger department store, at Eighth St. and Broadway, is reported to have been let to the WINSLOW BROS., of Chicago, Ill., for $120,000.

SAN FRANCISCO, CAL.—Boardman & Tompkins have applied for a permit to erect a 5-story steel and brick store and loft building at the southeast corner of California and Front Sts., to cost $100,000.

Preliminary plans are said to be under way in the Quartermaster-General's office at Washington, D. C., for improvements to be made at Fort Mason with the appropriation by the Legislature, which is $1,500,000. Of this amount, $750,000 is available immediately. The improvements to be made provide for the construction of a general supply depot for the army, consisting of a wharf sufficiently large to accommodate four transports, six warehouses, each 60 × 200 ft. and three stories high, and an administration building, together with officers' quarters sufficient to accommodate the officers on duty in connection with the depot.

Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Sept. 17, for repairs to stonework, miscellaneous repairs, alterations and painting at the U. S. Mint Building, San Francisco.

Kirby, Petit & Green, Archs., 35 West 31st St., New York, are preparing plans for an 18-story office building, at San Francisco, for the Hearst Estate, 15 Broad St., New York. It will be of brick and stone, fireproof, structural iron and steel work. Work will be done by MAHONEY BROS., San Francisco.

OTTAWA, ONT.—PETER LYALL & SONS, Montreal, Que., have received the contract for the erection of the new Y. M. C. A. building here, at $215,000.

TORONTO, ONT.—Plans are being prepared for the erection of a new wing to the Provincial Parliament Buildings, Toronto.

VANCOUVER, B. C.—D. Gibb & Son will erect an apartment block at the corner of Richards and Dunsmuir Sts. Cost, $115,000.

Plans have been prepared for improvements to the Vancouver Opera House, to cost $100,000.

A. E. Soper, proprietor of the Leland Hotel, has let the contract for a modern office building to the TACOMA CONSTRUCTION CO., at $260,000.

WATER SUPPLY—IRRIGATION.

SOUTHBRIDGE, MASS.—Plans for constructing water purification plant for the Southbridge Water Supply Co. are being prepared by William S. Johnson, 101 Tremont St., Boston, Mass.

NAPANOCH, N. Y.—The Legislature has authorized construction of water supply for the Eastern New York Reformatory at Napanoch. Cost, $10,000. Joseph F. Scott, at Elmira, N. Y., is Gen. Supt.

*PLEASANTVILLE, N. Y.—Bids are asked by the Board of Water Commissioners until 7.30 p. m., Aug. 26, for constructing storage reservoir with earth dam, masonry core wall, spillway, gate house and pipe conduit.

ROCHESTER, N. Y.—RIPTON & MURPHY have secured contract for laying water mains in Tenth, Twelfth, 14th, 17th and 22d Wards, for about $10,645. Edwin A. Fisher is City Engr.

RUSH, N. Y.—The Legislature has authorized installation of additional water supply at the State Agricultural and Industrial School at Rush. Cost, $5,000.

NEW YORK, N. Y.—The following bids were received Aug. 8 by the Department of Parks for constructing pumping plant in Forest Park, Borough of Queens: George Hilderbrand, 38 Park Row, New York, $17,770; McHarg-Barton Co., 299 Broadway, New York, $10,222; John Spence, 131 East 18th St., $13,825; James Mount Pl., Brooklyn, N. Y., [illegible]; TICONDEROGA, N. Y.—[illegible] prepared by Charles E. [illegible] Engr., of Philadelphia, Pa. [illegible] water supply. The supply [illegible] from Lake George or from [illegible] distant.

SENECA FALLS, N. Y.—[illegible] prepared by W. R. Roberts [illegible] system of fire protection, [illegible] structing an independent main [illegible] necessary loops. Estimated [illegible]

HOMESTEAD, PA.—Bids [illegible] Aug. 16 by And. Hill, Boro. C [illegible] ing c.-i. pipe T's, stop gate [illegible] valves and specials for water [illegible] uting and laying c.-i. pipe fr[illegible] water tower at reservoir; also [illegible] the present 14-in. line and l[illegible] the same and reconnecting [illegible] and setting gates, etc.

MECHANICSBURG, PA.—A [illegible] system will be installed. The [illegible] will construct reservoir, pump[illegible] filter plant. The water will b[illegible] Yellow Breeches Creek.

SCRANTON, PA.—The Delaware, Lackawanna & Western R. R. Co. [illegible] to press notices, construct and [illegible] works in Scranton. Lincoln [illegible], at Hoboken, N. J., is Ch. Engr.

CUMBERLAND, MD.—Bids are asked by the Board of Water Commissioners until Aug. 26 for furnishing and installing complete pumping engine of 5,000,000 gallons capacity.

NORFOLK, VA.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Sept. 14, for constructing steel tank and tower, Navy Yard, Norfolk, Va. R. C. Holladay is Ch. of Bureau.

*ELKINS, W. VA.—Bids are asked until Sept. 5 for sale of $40,000 of water and sewerage bonds. George Henry, City Clerk.

PENSACOLA, FLA.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Sept. 7, for constructing water-works, including 100,000-gallon steel tank and tower, at the Navy Yard, Pensacola. R. C. Holladay is Ch. of Bureau.

HATTIESBURG, MISS.—Plans are being prepared for extending and improving the water-works system. The work will probably include enlarging present 140,000-gallon retaining tank or construction of additional reservoir, increasing water supply to about 1,000,000 gallons, extending of present standpipe and enlarging power-house. Estimated cost, $25,000. Burk Jones is Supt. W. W.

LEWISBURG, TENN.—Bids are asked by the Board of Aldermen until Aug. 20 for constructing standpipe, c.-i. water pipe, specials, etc. L. J. Nance is Chn. Water Com., Geo. Cadogan Morgan, 808 Royal Insurance Bldg., Chicago, Ill., is Engr.

NEGAUNEE, MICH.—The Board of Public Works has let contract to the MICHIGAN PIPE CO. for constructing 14-in. water main from Douglass St. to intersection of Division and Pine Sts.

SAGINAW, MICH.—Plans will soon be prepared by R. W. Roberts, City Engr., for constructing water mains on Howard St., between Phelon and Remington Sts.

JACKSONVILLE, ILL.—Plans are being prepared by C. W. Brown, Consult. Engr., for installing water-works system at the Morgan County Poor Farm. Charles Thomason, Supt. J. S. Merrill is County Clk.

*JOLIET, ILL.—Bids are asked by the Spring Creek Drainage District Commissioners, 221 Barber Bldg., Joliet, Ill., until 3 p. m., Sept. 3, for excavating channels and constructing concrete walls. The work consists of approximately 90,000 cu. yds. excavation and 10,000 cu. yds. concrete walls.

MATTOON, ILL.—The U. S. CAST-IRON PIPE & FOUNDRY CO., 80 Broadway, New York, has been awarded contract for furnishing 450 short tons 12-in. water pipe, at $34 per ton. DUNKEL & GORRING, of Tuscola, secured contract for laying 11,500 ft. 12-in. pipe at 33 cts. Claude L. James is City Engr.

GENESEO, ILL.—Bids are asked until Aug. 19, for pumping machinery for the municipal water-works. J. F. Lieberknecht is City Clk. Alvord & Burdick, 1207 Hartford Bldg., Chicago, are Engrs.

EAST MOLINE, ILL.—A pumping station and standpipe will be erected as a basis of a municipal water supply system. Estimated cost, $12,000.

MEDFORD, WIS.—Plans have been prepared by C. H. Phillips, of Marshfield, Wis., for constructing water-works. Estimated cost, $30,000.

DODGEVILLE, WIS. — The water-works system will be improved. Estimated cost, $5,000.

NORTHWOOD, IOWA.—The contract for constructing drainage ditch in District No. 5 has been let to SULLIVAN & O'CONNOR, of Webster City, for $12,700.

NEVADA, IOWA.—The contract for constructing Marshall-Story ditch in District No. 1 was awarded Aug. 2 by F. G. Dunaugh, County Audr., to THEODORE DANGERFIELD, for $44,710.

DAWSON, MINN.—Bids are asked until Aug. 20 for constructing combined water-works and electric light plant. Estimated cost, $28,000. Oscar Claussen, of St. Paul, Minn., is Engr.

FT. SNELLING, MINN.—Bids are asked by Maj. Amos W. Kimball, Const. Q. M., at St. Paul, Minn., until 11 a. m., Sept. 3, for constructing drainage ditches at Ft. Snelling.

LESUEUR CENTER, MINN.—The contract for constructing Judicial Ditch No. 1, in Blue Earth and Lesueur Counties, has been let to FRANK WARRANT, for 14 cts. per cu. yd.

DULUTH, MINN.—**PASTORET & LUNZ** have been awarded contract for constructing Hillside water and gas systems, for $35,648. Thomas F. McGilvray is City Engr.

MONTGOMERY, MINN.—Bids are asked by the Common Council until 7.30 p. m., Aug. 31, for laying 524 ft. 6-in. water main, with hydrants, etc. A. S. Olson is City Recorder.

BRADSHAW, NEB.—Bids are asked until Aug. 20 for constructing water-works. C. B. Palmer is Village Clk.

OMAHA, NEB.—Plans are being prepared by Minard Holman, of Holman & Laird, Consulting Engrs., of St. Louis, Mo., for constructing filter plant.

WYNOT, WYO.—The Secretary of the Interior has awarded contract to the COLORADO IRON FOUNDRY CO., of Denver, Colo., for furnishing lifting devices, cast-iron gates, frames and appurtenances for use in connection with the Interstate Canal, North Platte Project, Neb.-Wyo., for $9,050. The Secretary of the Interior has awarded contract to the EXPANDED METAL & CORRUGATED BAR CO., of St. Louis, Mo., for furnishing structural and reinforcing steel in connection with the Interstate Canal, North Platte Irrigation Project, Neb.-Wyo., for $6,476.

THERMOPOLIS, WYO.—A water-works system will probably be installed. Estimated cost, $75,000. J. B. Chessington is City Engr.

FARGO, N. DAK.—The County Drainage Board has decided to construct three ditches through Wiser and Gardner Townships, to be known as Ditches Nos. 24, 25 and 26. Estimated cost, $51,000.

SPRINGER, N. MEX.—The Palo Blanco Land & Irrigation Co. has incorporated with capital of $175,000 for irrigation purposes. Incorporators: Chas. E. Hartley, Chris. Hansen and Chas. F. Hortenstein, all of Springer.

KANSAS CITY, MO.—Bids are asked until Sept. 3, by the Board of Public Works, Everett Elliott, Secy., for furnishing and delivering f. o. b. cars Kansas City, the following: 50 tons 4-in., 1,110 tons 6-in., 260 tons 8-in., 370 tons 10-in., 220 tons 12-in., 700 tons 16-in., and 20 tons each of 20, 24, 30, 36 and 42-in. c.-i. pipe, 2,200 tons 48-in. c.-i. pipe and 50 tons special castings for pipe 24-in. and greater in diameter, 1,000 lin. ft. riveted steel pipe, having minimum internal diameter of 48-in., made of soft steel plate, ¼ in. thick; 6,000 lin. ft. additional 48-in. steel riveted pipe. Edgar A. Harper is City Engr.

BEEBE, ARK.—The city contemplates construction of water-works.

CROCKETT, TEX.—A water-works system will be installed.

ESTACADA, ORE.—Plans are being prepared for changing the water plant from a power to a gravity system. The pipe line will be 4,000 ft. long with a 50-ft. fall from headworks of the reservoir.

LOS ANGELES, CAL.—C. H. Richards, Tunnel Engr., Los Angeles Aqueduct, Dept. Public Works, Roosevelt, Cal., advises us that there will be 28 miles of tunnel work in the aqueduct project and that the Aqueduct Department will be in the market for machinery and supplies.

LEWISTON, IDAHO.—The North Lewiston Water Co. has been incorporated by J. L. Chapman, Albert Davis, Charles Mix, W. A. Morey, R. R. Lowe, Austin Morey and Wallace Stainton, all of Lewiston. The company owns springs and 320 acres of land near the city, and plan to convey the water to the lands which are adapted to grape culture. Present capacity of the springs is 250,000 gallons per 24 hrs.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BAR HARBOR, ME.—A report upon an improved system of sewerage and sewage disposal will be submitted by William S Johnson, 101 Tremont St., Boston, Mass.

SOUTHBRIDGE, MASS.—Bids will soon be asked for constructing sewerage purification works. William S. Johnson, 101 Tremont St., Boston, Mass., is Engr.

SPRINGFIELD, MASS.—Bids are asked by the Sewer Commissioners until 8 p. m., Aug. 20, for constructing about 8,500 ft. of sewers. Roswell L. Gardner is City Engr.

HARTFORD, CONN.—The Board of Contract and Supply has let contract for constructing Section A of Homestead Ave. intercepting sewer system to ANDREW W. BRYNE, 79 Milk St., Boston, Mass., for $41,908. Bids were also received from the following: F. B. & W. H. O'Neil, 24 Pawtucket St., Hartford, $58,770; Chas. H. Slocomb, 55 Adelaide St., Hartford, $48,407; Eveline Bros., Waterford, N. Y., and New Britain, Conn., $47,286; F. T. Ley & Co., Inc., Springfield, Mass., $68,044; Falvey & Kelly, 15 Intervale Park, Dorchester, Mass., $43,774; Hartford Paving & Construction Co., 703 Main St., Hartford, $42,691; and Russell Contracting Co., 156 Fifth Ave., New York, N. Y., $42,311. The work includes about 1,070 lin. ft. of 10-in. concrete conduit and 650 lin. ft. concrete or brick conduit of egg-shaped section 3×4 ins. in diameter. Frederick L. Ford is City Engr.

NEW HAVEN, CONN.—The Board of Public Works has let contract for laying 1,940 lin. ft. of sewers to DWYER & MANNIX, at $5,047. W. Kelly is City Engr.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Aug. 28, for constructing sewer in portion of Scott Ave.

NEW YORK, N. Y.—The lowest bid received Aug. 31 by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing material and constructing relief sewer in Gold and Johnson Sts., etc., Div. 2, Gold St. system, was submitted by Rogers & Haggerty, 1929 Amsterdam Ave., New York, as follows: 173 lin. ft. outlet sect. A, $143.97; 40 lin. ft. outlet Sect. B, $152.35; 80 lin. ft. connecting chamber, $161.28; 1,910 102-in. circular sewer, $83.25; 1,431 lin. ft. 150-in. circular sewer, $57.33; 628 lin. ft. 150-in. circular sewer, $50.38; 20 lin. ft. 3×4 ft. 6-in. egg-shaped sewer, $21.45; 150 lin. ft. 24-in pipe sewer, $3.38; 730 lin. ft. 18-in. pipe sewer, $2.99; 2,190 lin. ft. 15-in. pipe sewer, $3.20; 4,645 lin. ft. 12-in. pipe sewer, $2.47; 30 lin. ft. 24-in. pipe temporary drain, $4.16; 130 lin. ft. 15-in. pipe temporary drain, $3.20; 205 lin. ft. 12-in. pipe temporary drain, $2.47; 4,130 lin. ft. 12-in. pipe sub-drain, 65 cts.; three manholes, Class "A," $200; six manholes, Class "B," $200; two manholes, Class "C," $130; one manhole on 3×4-ft. 6-in. egg-shaped sewer, $52; 72 manholes on pipe sewer, $50; 53 sewer basins reconnected, $25; 1,100 M ft. sheeting and bracing, $30; 420 M ft. foundation plank, $30; 1,000 cu. yds. Class "B" concrete, $7; 50,000 lin. ft. bearing piles, 30 cts.; 15 M ft. pile capping, $30; 2,000 lin. ft. oak fender piles, 50 cts.; 260 M ft. yellow pine sheet piling and wales, $80; 2,280 cu. yds. riprap or cobblestone fill, inside of coffer-dam, 75 cts.; 370 cu. yds. riprap, outside of cofferdam, 75 cts.; total, $475,476. Bids were also submitted by the following: Paul C. Grening Construction Co., Brooklyn, $478,856; M. G. Madsen, Brooklyn, $558,390; Builders Trucking & Material Co., Brooklyn, $520,097, and John J. Creem, Brooklyn, $570,521.

FULTON, N. Y.—Vitrified pipe sewers will be constructed. Estimated cost, $20,000. O. C. Breed is City Engr.

LANCASTER, N. Y.—Bids will soon be asked for constructing drainage system and disposal plant. Estimated cost, $150,000. Joos & Gatchell are Engrs.

WHITESBORO, N. Y.—Bids are asked by the Board of Village Trustees until 8 p. m., Aug. 19, for reconstructing portions of sewerage system. J. C. Eberley is Village Clk. W. G. Stone, Mann Bldg., Utica, N. Y., is Engr.

*HACKENSACK, N. J.—Bids are asked by the Hackensack Improvement Commission, C. Linkroum, Pres., until 8 p. m., Aug. 20, for constructing about 112.5 ft. of flat-topped concrete drain, 3½ ft. high and 7 ft. wide, connecting the brook with sewer in Union St., together with wing walls, air-flap guard rail, steel work, etc. H. B. Stagg is Chn. Street Com. Lemuel Lozier, Bank Bldg., Main and Mercer Sts., Hackensack, is Engr.

SOUTH RIVER, N. J.—Plans for constructing sewerage system have been prepared by Josiah Tice. Estimated cost, $20,500.

EAST PITTSBURG, PA.—Contract for constructing sewers, etc., has been let to THOMAS CRONIN & CO., 17th and South Muriel Sts., Pittsburg. A. H. Snyder is Secy. of Council.

FT. DADE (Egmont post-office), FLA.—Bids are asked by Lieut. J. A. Thomas, Constr. Q. M., until Aug. 30, for construction of storm water drains at this post.

AKRON, OHIO.—The following bids have been received by the Board of Public Service for constructing main trunk sewer and filter beds west of Portage Park: DAN O'MARR, $12,650 (awarded contract); S. W. Parshall & Co., $18,843, and T. McShaffrey & Son, $13,561. J. W. Payne is City Engr.

DAYTON, OHIO.—The Board of Public Service has let contract for constructing the Riverdale intercepting storm sewer and pumping station to PAUL & KERSHNER, at $21,456, for plan "B." The only other bid received for plan "B" was submitted by the Backus Construction Co., at $22,310. Robert E. Kline is City Engr.

WARREN, OHIO.—Contract for constructing lateral sewers has been let to JAMES McCRACKEN, of this city, at $4,626. E. M. Milligan is City Engr.

LONDON, OHIO.—Bids are asked by the Village Council until noon, Aug. 16, for laying sewer pipe. John W. Byers is Village Clk.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, Aug. 20, for constructing sewers in various streets. W. J. Carter is City Engr.

TOLEDO, OHIO.—The contract for constructing the Parkwood sewer will probably be awarded to Breyman Bros. & McNeil, at $12.75 per ft. The only other bid received was submitted by H. P. Stricker at $16.25 per ft. The sewer will be over two miles in length, six ft. in diameter at its mouth and two ft. at starting point. Frank I. Sonsaul is Ch. Engr., Bd. Pub. Service.

AKRON, OHIO.—The total cost of construction of the main trunk sewer, storm water sewer and the filter beds for that part of the city west of Portage Park is estimated at $13,970. J. W. Payne, City Engr.

BATTLE CREEK, MICH.—C. L. Simkins, 169 Parish St., Battle Creek, has prepared plans for the Board of Public Works, for constructing reinforced concrete storm water sewer in Lake Ave., from Fountain St. to Tennyson Ave. Estimated cost, $10,000.

NORTH CHICAGO, ILL.—Bids are asked by the Bureau of Navigation, Navy Department, Washington, D. C., until noon, Aug. 21, for laying sewers and drains at the Naval Training Station, Great Lakes, North Chicago. W. H. Brownson is Ch. of Bureau.

RACINE, WIS.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 17, for constructing sewer in portion of Erie St. The work includes laying 565 lin. ft. 12-in. and 230 lin. ft. 10-in. pipe, three manholes, and three catch basins. P. H. Connolly is City Engr.

NORTH MILWAUKEE, WIS.—The contract for laying 15,300 ft. of vitrified pipe sewers has been awarded to F. E. KAMINSKI, of Berlin, Wis., at $11,950.

DENISON, IOWA.—Bids are asked until Aug. 19, by the City Council for laying 1,415 ft. 8-in. vitrified sewer pipe in Pine and East Prospect Sts. O. M. Criswell is City Clk.

DAVENPORT, IOWA.—The Board of Public Works has let contract to the DAVENPORT CONSTRUCTION CO. for constructing Ninth and Warren Sts. sewers, at 80 cts. per ft. P. CONNELLY secured the contract for constructing the Park Lane sewers at 92½ cts. per ft. Thomas Murray is City Engr.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works until 11 a. m., Aug. 23, for constructing sewers in various streets. George D. Dobson is City Engr.

WICHITA, KAN.—McINTYRE & TEESE, St. Louis, Mo., have secured contract for constructing sewer No. 5 at $160,000; also West Side sewer No. 8, at $72,000. DOYLE & SWARTZ, Denver, Colo., have been awarded contract for constructing sewer at $110,000. R. N. Door is City Clerk. E. H. Sawin is City Engr.

BOZEMAN, MONT.—Pipe sewers will be constructed. Estimated cost, $36,000. C. M. Thrope, of Bozeman, is Engr. Harry A. Bolinger is City Clk.

NEVADA, MO.—Bids are asked by S. L. Higgins, City Clk., until 4 p. m., Aug. 20, for constructing District Sewer No. 14. J. M. Clack is City Engr.

PALMYRA, MO.—The City Council has let contract for constructing Spring St. sewer to LANE & McNALLY, of Hannibal, Mo.

ST. JOSEPH, MO.—The Board of Public Works has let contracts for constructing sewers as follows: The J. H. HARTMAN BRIDGE & CONSTRUCTION CO., for extending Wyatt Park sewer, $4,420; RACKLIFFE & GIBSON, extending King Hill Ave. sewer, $5,033. David L. Lawlor is City Engr.

HOUSTON, TEX.—Bids are asked by T. Bringhurst, City Secy., until 4 p. m., Aug. 19, for constructing sewer lift station. I. Austin Miller is City Engr.

RITZVILLE, WASH.—FIFE BROS., of Spokane, have been awarded contract for constructing sewer system and septic tank, for $18,000.

SNOHOMISH, WASH.—The Council has let contract to McADAMS & SNYDER for constructing sewer, at $18,200.

OAKLAND, CAL.—The Board of Public Works, Walter B. Fawcett, Secy., has let contracts to the CONTRA COSTA CONSTRUCTION CO. for constructing two intercepting sewers on Second St., one between Broadway and Alice St. and other between Washington and Market Sts., for $11,059 and $17,482, respectively. C. W. Cross is City Engr.

FAIRFIELD, CAL.—A sewerage system will be installed. Estimated cost, $20,000.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

NEW HAVEN, CONN.—Bids are asked by C. W. Kelly, City Engr., until 11 a. m., Aug. 19, for laying crushed stone pavement on Carlisle St., from Liberty St. to Howard Ave.; bitulithic pavement on State St., from Grand Ave. to Mill River and Hassam pavement on Oak St. from Temple to Broad Sts.

FRANK BRAZOS, of this city, has been awarded contract for paving Plymouth St., from Lamberton St. to the Boulevard, at $6,061.

SONYEA, N. Y.—The Legislature has authorized constructing stone roads, cement sidewalks, etc., at the Craig Colony for Epileptics at Sonyea. Cost, $14,650. Dr. W. P. Spratling is Supt.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 22, for furnishing and delivering 50,000 Belgian blocks for parks, Boro. of the Bronx.

NEW YORK, N. Y.—Bids were received Aug. 6 by the Department of Docks and Ferries for laying asphalt pavement at the approach to the Stapleton Ferry Terminal at Staten Island, as follows: Barber Asphalt Paving Co., 114 Liberty St., New York, $2.45 per sq. yd. and Uvaldo Asphalt Paving Co., 1 Broadway, New York, $2.40.

The following bids were received Aug. 8 by the Department of Docks and Ferries for curbing and flagging and laying granite pavement, with crosswalks, within area of Marginal St. on the Chelsea section, between West 15th and West 19th Sts., Boro. of Manhattan: Matthew Baird Contracting Co., 433 East 92d St., New York, $50,873; Atlantic Contracting Co., 434 East 91st St., New York, $51,709; John M. Sheehan, 280 Broadway, New York, $50,636 and Michael J. Fitzgerald, 547 West 45th St., New York, $50,500.

The following bids were received Aug. 8 by the Department of Parks for constructing asphalt tile walks in Winthrop, Cooper and Seaside Parks, Boro. of Brooklyn: Hastings Pavement Co., 25 Broad St., New York, 24 cts. per sq. ft. and Continental Asphalt Paving Co., 42 Broadway, New York, 26¾ cts.

*ALBANY, N. Y.—Bids are asked by Frederick Skene, State Engr. and Surveyor, State House, Albany, for highway improvement work, until noon, Sept. 3d, 4th and 5th. Number of roads, names, and estimated length of each is given in the advertisement which appears in this week's issue.

*BAYONNE, N. J.—Bids are asked by the City Council until 8 p. m., Aug. 20, for improving 41st St., from Ave. C to Ave. E. The work includes laying about 4,290 sq. yds. asphalt pavement, together with concrete curb and gutter, etc. W. C. Hamilton is City Clk. F. W. Dalrymple is City Surv.

*SMETHPORT, PA.—Bids are asked by W. G. Holder, Town Clk., until 5 p. m., Aug. 29, for laying 22,056 sq. yds. of pavement.

NANTICOKE, PA.—The contract for paving Espy St. with Porter brick has been awarded to JAMES BADMAN for $5,930.

*RIDGWAY, PA.—Bids are asked by Geo. F. Greiner, Boro. Clk., until noon, Aug. 31, for improving West Main St. The work consists of the following approximate quantities: 2,000 cu. yds. excavation; 8,100 sq. yds. brick pavement on concrete base; 6,200 lin. ft. curb setting; 700 cu. yds. masonry; 575 cu. yds. concrete foundations and 530 cu. yds. foundation excavation.

PITTSBURG, PA.—Bids are asked by the County Commissioners until noon, Aug. 26, for improving various highways. F. P. Booth is County Controller.

YORKTOWN, VA.—Bids are asked by the Board of County Supervisors until 2 p. m., Sept. 3, for constructing road.

SUTTON, W. VA.—The Town Council has let contract to HAMILTON & HUFFMAN, of Fairmont, W. Va., for grading, paving, curbing and sewering, at about $30,000.

DURHAM, N. C.—Plans are being prepared for extending the Durham and Roxboro County Road about twelve miles to the Person County Line. The work will include excavation and 6-in. macadam. Gilbert C. White, Durham, N. C., is Engr.

YOUNGSTOWN, OHIO.—The Board of Public Service has awarded the contract for repaving East Federal St. to JAMES McCARRON, of Youngstown, for $9,187. F. M. Lillie is City Engr.

SANDUSKY, OHIO.—Bids are asked until Aug. 20 by B. J. McGory, Clk. Bd. Pub. Service, for grading, curbing and paving portions of Osborne, Lawrence, Washington and Monroe Sts. A. C. Schultz is City Engr.

MT. GILEAD, OHIO.—Bids are asked until Aug. 23, by W. C. McFarland, Co. Audr., for constructing the Climax Free Turnpike.

DILLONVALE, OHIO.—Bids are asked by the Village Council until noon, Aug. 23, for paving portion of Liberty St. Ross Blazer is Village Clk.

PAINESVILLE, OHIO.—Bids are asked by the Board of Public Service, O. W. Kile, Clk., until noon, Aug. 16, for laying about 11,950 sq. ft. of concrete walks in the Park. H. P. Cummings is City Engr.

WAUSEON, OHIO.—Bids are asked by the County Commissioners until 10 a. m., Aug. 30, for grading and graveling various roads. J. E. Merrill is County Audr.

LONDON, OHIO.—Bids are asked by the Village Council until noon, Aug. 16, for constructing cement sidewalks, curbs and gutters on portion of High St. John W. Byers is Village Clk.

MADISONVILLE (Cincinnati post-office), OHIO.—Bids are asked by the Board of County Commissioners, Fred. Dreihs, Clk., until noon, Aug. 30, for improving Camargo Pike, Columbia Township.

PORTSMOUTH, OHIO.—Bids were recently received for paving streets, as follows: Sixth St., KAPS BROS., $20,258 (awarded contract); Kelley Bros., $20,418; Monroe & Son, $20,695. Gay St., MONROE & SON, $20,55[illegible] (awarded contract); Kelley Bros., $20,640. Union St., KELLEY BROS., $11,186 (awarded contract); Monroe & Son, $11,416. R. A. Bryan is City Engr.

LORAIN, OHIO.—Bids are asked by the Board of Public Service, George N. Damon, Clk. pro tem., until noon, Aug. 20, for paving portion of Vine St.

BLUFFTON, IND.—Bids are asked by the County Commissioners until Sept. 6 for constructing 23 gravel roads.

GREENCASTLE, IND.—The contract for construction of five miles of gravel road on the county line has been awarded to MAHONEY & ALLEN, of Greencastle, for $17,300.

TIPTON, IND.—Bids are asked by the Commissioners of Tipton and Clinton Counties at Tipton, until 10 a. m., Aug. 19, for construction of gravel road on the county line.

HUNTINGTON, IND.—Bids are asked by the County Commissioners until 2 p. m., Aug. 31, for constructing gravel road in Warren Township.

ROCK ISLAND, ILL.—The TRI-CITY CONSTRUCTION CO., of Davenport, Ill., has been awarded contract for paving 13th St., for $7,290. W. Treichler is City Engr.

FREEPORT, ILL.—WILLIAM ASCHER, of this city, has been awarded contract for laying 27,100 sq. yds. brick pavement, including curbs, sidewalks, etc., for $50,986. G. W. Graham is City Engr.

GREEN BAY, WIS.—Contract has been let to the ANDREWS ASPHALT PAVING CO., of Hamilton, Ohio, for paving three streets, for about $58,000. W. W. Read is City Engr.

IOWA CITY, IOWA.—Bids are asked by the City Council until Aug. 21 for laying brick pavement on about 13 blocks and macadam pavement on one block. Estimated cost, $40,000.

FULTON, MO.—Bids are asked by W. R. Pemberton, City Clk., until noon, Aug. 20, for laying about 7,000 sq. yds. vitrified paving, curbing, etc. Philip D. Thurmond is City Engr.

TORONTO, ONT.—The Board of Control has awarded contract for laying asphalt pavement on portion of Ontario St. to the GODSON CONTRACTING CO., for $6,927. The BARBER ASPHALT CO. secured the contract for laying asphalt pavement on portion of Dupont St., for $6,888. The CONSTRUCTION & PAVING CO. was awarded contract for asphalt pavement on portion of Clinton St., at $5,759. C. H. Rust is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The Empire State Tire Co. has recently been incorporated with capital of $20,000. The company will construct and operate factory for manufacture of puncture-proof automobile tires.

REDUCTION (West Newton post-office), PA.—Bids are asked by J. B. Hogg, Engr., of Connellsville, Pa., for constructing mechanical plant and crusher for the Yough Sand & Stone Co., of Connellsville. The plans include a steam power plant and aerial tramway, which will transport sand across Youghiogheny River to the Baltimore & Ohio R. R. siding. Estimated cost, $50,000.

Plans are being prepared by J. B. Hogg, Engr., of Connellsville, Pa., for constructing coal plant, power-house and mine openings for the Neal Coal Co., of Connellsville.

PHILADELPHIA, PA.—Contract has been awarded to W. W. REA'S SONS, 1815 Frances St., for erection of cigar manufactory for Theobald & Oppenheimer, at Fourth and Cambridge Sts. The building will be five stories and basement, of slow-burning mill construction, 68 × 186 ft. Cost, $90,000.

BALTIMORE, MD.—The National Casket Co., 827 East Lombard St., has awarded contract to JAMES J. O'CONNOR, 427 East Lexington St., for erection of a 4-story brick addition to its plant, 40 × 60 ft., mill construction, with automatic sprinkler system.

Revised plans have been prepared for constructing bottling plant on Eutaw St., between Hamburg and Henrietta Sts., for the Joseph Schlitz Brewing Co., of Milwaukee, Wis. Kirchoff & Rose, Milwaukee, Wis., are Archs. Parker & Thomas, 1100 Union Trust Building, Baltimore, are Superv. Archs. Structure to be two stories, 124 × 155 ft. Estimated cost, $50,000.

WASHINGTON, D. C.—The Washington Market Co., E. R. Tinker, Pres., Pennsylvania Ave. and Seventh St., N. W., has about completed plans for construction of plate-ice plant in block bounded by E, F, Eleventh and Twelfth Sts., S. W. Structure to be three stories, 150 × 300 ft.; brick and stone construction. Estimated cost, $100,000. Latest improved machinery of the ammonia type will be installed. Later the company will also erect an ice-storage building 150 × 300 ft. Estimated total expenditure, $400,000.

EDINBURG, VA.—The Edinburg Spoke & Bending Co. has been incorporated with capital stock of $10,000 to manufacture spokes, rims, felloes, etc. J. M. Solomon is Pres. Rebecca Solomon, Vice-Pres., and Watson Conklin, Secy.-Treas.

ST. PAULS, N. C.—The St. Pauls Cotton Mill Co., recently incorporated with capital stock of $100,000, has organized with L. Shaw, Pres.; J. M. Butler, Vice-Pres.; and A. R. McEachern, Secy.-Treas. Plans are now being made to build 5,000-spindle yarn mill. W. D. McNeill, of Fayetteville, N. C., is reported interested.

STATESVILLE, N. C.—The contract has been let to J. O. GAITHER for constructing 90-ft. addition to plant of the Bloomfield Mfg. Co.

SPARTANBURG, S. C.—A company is being organized by John B. Claveland, Elisha Bomar, George S. Begg, Horace Bomar and associates, for constructing cotton mill, with equipment of 10,000 spindles.

CEDARTOWN, GA.—The Alabama & Georgia Iron Co. A. Griggs, Pres., has awarded contract to GEORGE TRAMMELL, of Rome, Ga., for erecting ten coke ovens. P. M. EGAN, of this city, has secured contract for oven brickwork.

ATLANTA, GA.—The Cornell Box & Lumber Co. has been incorporated with capital stock of $50,000, it is reported, to manufacture lumber, boxes, crates, etc.

PENSACOLA, FLA.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Sept. 14, for constructing locomotive shed and paint shop at the Navy Yard, Pensacola. R. C. Hollyday is Ch. of Bureau.

CHICORA, FLA.—The Bradley Fertilizer Works, 92 State St., of Boston, Mass., has awarded contract to McIVER & MacKAY, of Ocala, Fla., for construction of two phosphate plants.

VICKSBURG, MISS.—The Vicksburg Compress & Warehouse Co. has been incorporated with capital stock of $50,000 to construct and operate cotton compress and warehouse. The incorporators are: R. L. Crook, S. Susman, P. M. Harding, D. J. Shlenker and associates.

NEW ORLEANS, LA.—The Home Lumber & Supply Co., Ltd., 406 Wells-Fargo Building, recently incorporated, will establish plant for manufacture of lumber, paving blocks and paving materials. W. H. Reed is Pres.; W. B. Harbeson, Vice-Pres.; H. T. O'Connor, Secy.-Treas.

NASHVILLE, TENN.—The Kemker-Woolwine Candy & Cracker Co. has reorganized, and contemplates combining its four factories by constructing new bakery. Estimated cost, $100,000. Jos. H. Thompson is Pres.; James Hapson is Gen. Mgr.

YOUNGSTOWN, OHIO.—The Republic Rubber Co. has awarded contract for constructing 3-story addition, 40 × 125 ft., to its plant at Crab Creek. Cost, $40,000.

BLOOMFIELD, IND.—Bids are asked by the Bloomfield Vitrified Brick & Tile Co., capitalized at $50,000, for constructing and equipping manufacturing plant. T. H. Schmutz, Chanute, Kan., and C. C. Slem and Lloyd Begeman, of Westphalia, Ind., are Directors.

DETROIT, MICH.—The American Chain & Foundry Co. has been incorporated with capital stock of $2,000,000. The company will construct and operate plant for manufacturing link belting, elevator and conveying machinery, etc. T. H. Simpson, Detroit, is Pres.; C. S. Santelroy, Chicago, is Vice-Pres.; W. C. Fry, Milwaukee, is Second Vice-Pres. A. B. Caldwell, Chicago, is Secy.-Treas.

ISHPEMING, MICH.—The Detroit Iron & Steel Co., it is reported, will improve its plant, doubling its present capacity of 350 tons of pig iron a day. The enlarged plant will occupy 30 acres of ground, and construction will be started at once. D. R. Hanna, of Cleveland, is Pres., and Charles W. Baird, Secy. and Treas.

ST. PAUL, MINN.—The BRAYTON ENGINEERING CO., University Ave. and Marion St., St. Paul, has been awarded contract for general construction of box board factory for the Waldorf Box Board Co. The building will be two and four stories, 180 × 330 ft., of pressed brick and reinforced concrete fireproof construction. Cost, $100,000. Postle & Mahler, Marquette Bldg., Chicago, Ill., are Archs.

MINNEAPOLIS, MINN.—Plans are being prepared by Bertrand & Chamberlain, Bank of Commerce Bldg., for constructing brick factory at Central and 13th Aves., N., for the Northland Knitting Co. The building will be 2-story, 50 × 200 ft., with gravel roof, etc. George McNamee is Pres.; A. W. Stevens is Secy.

ST. LOUIS, MO.—The A. Gilbert & Sons Brass Foundry Co. has purchased 75 × 100-ft. site for erection of proposed foundry addition. A. W. Black Construction Co. is preparing plans and specifications for one-story structure, with two-story front; first floor for foundry; second floor for offices; sawtooth roof; 18,000 sq. ft. of skylights; roof supported by iron beams; no pillars to be used; foundry department will be equipped for manufacturing railroad brasses, bronze, aluminum, babbitt metal, solder and bar lead, etc. Cost of building and equipment, $25,000.

FORT SMITH, ARK.—The Thrash-Lick Printing Co. will rebuild plant recently burned. Estimated cost, with equipment, $40,000. James B. Moore is Mgr.

GALVESTON, TEX.—The Galveston, Houston & Henderson R. R. Co. is planning to erect woodworking plant near present repair shop; building to be 60 × 100 ft., one story high, constructed of brick. Near this shop will be located 14-stall roundhouse. Piling is now being driven for foundation, and construction will begin this month. Woodworking equipment will include general woodworking machines, lathes, planers, saws, etc., all to be driven by electricity; probably separate motors will be attached to each machine. Enlargements to metal-working plant are now being considered. J. H. Hill is Gen. Mgr., at Galveston. Offices of company in New York are at 54 Wall St.

SUMNER, WASH.—We are officially advised by the Weber-Bussell Canning Co., Seattle, that it is now erecting a cannery at Sumner. Estimated cost of building, $26,000; equipment, $14,000. The company will build another cannery at Newberg, Ore., at once.

NEWBERG, ORE.—See Sumner, Wash.

VERDUN, QUE.—The Best Steel Castings Co. has been incorporated, with capital of $299,000. The incorporators are: O. L. Henault, Westmount, Que.; L. H. Henault, T. J. Best, Montreal; A. Nadeau, Verdun, Que.

BLUE BONNETS, QUE.—The Dominion Car & Foundry Co. will spend $2,000,000 enlarging its workshops at Blue Bonnets.

WELLAND, ONT.—The Bemis Bros. Bag Co., 89 State St., Boston, Mass., has secured a site of 80 acres in Welland, on which it will erect a factory. It will import raw cotton, and from it will manufacture all kinds of bags, such as grain bags, etc. It will start with a plant costing $400,000, and employ 500 hands the first year. Three years will be required to build the entire plant, the total cost of which will be $1,500,000, employing 1,500 hands. The mill will contain 15,000 spindles. From Welland the company will require only sewerage and water. The company requires a free site of 25 acres. This site is on the Hilale farm in Crowland, adjoining Welland, east of the Grand Trunk Ry. and north of the Michigan Central R. R.

SWANSTON HARBOR, B. C.—The Canadian Sulphide & Pulp Co., Ltd., will erect pulp and paper mill and sawmill.

EDMONTON, ALTA.—The Alberta Biscuit Co., of Calgary, will construct biscuit factory at Edmonton. Cost, $150,000. I. S. G. Vanwort is Pres.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

*DREDGING.—Norfolk, Va.—Bids are asked until noon, Sept. 4, by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., for dredging harbor at Norfolk.

*DREDGING.—New London, Conn.—Bids are asked until noon, Sept. 7, by Maj. Harry Taylor, Corps Engrs., U. S. A., for dredging in Stamford Harbor, Conn.

*DREDGING.—New Orleans, La.—Bids are asked until 11 a. m., Sept. 10, by Capt. J. F. McIndoe, Corps Engrs., U. S. A., for dredging in Southwest Pass, Mississippi River.

*BREAKWATER.—Bar Harbor, Me.—Bids are asked until noon, Sept. 10, by Maj. George A. Zinn, Corps Engrs., U. S. A., Portland, for construction of a breakwater at near Bar Harbor.

SEA-WALL.—Oyster Bay, N. Y.—The ABBOTT-GAMBLE CO., 32 Broadway, New York, has been awarded the contract for the construction of the sea-wall over one mile long at Oyster Bay, Long Island, N. Y. Noted on July 11.

*IRON FLAGSTAFF.—New York, N. Y.—Bids are asked until 10.30 a. m., Aug. 30, by G. C. Burnell, Const. Q. M., Fort Wood, N. Y. H., for foundation, painting and erection of a 100-ft. iron flagstaff at this post.

*DREDGING.—Boston, Mass.—Bids are asked by the Board of Harbor and Land Commissioners, Boston, until 2 p. m., Aug. 23, for dredging shoals in Ipswich River, in town of Ipswich. Frank W. Hodgdon, Ch. Engr.

REMOVING LEDGE.—Portsmouth, N. H.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded to JOHNSTON & VIRDEN, Lewes, Del., contract for removing ledge in harbor of Portsmouth, N. H., at $119,900.

RIPRAP.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, Aug. 19, for Contract No. 1101: For furnishing all the labor and material required for furnishing and putting in place riprap stone.

DITCHES.—Ivanhoe, Minn.—There will be a sale of five ditches at Ivanhoe on Aug. 20. The aggregate estimated cost is $24,275; some tile work, but mostly dredge work. Three of these are practically one ditch and the other two are within good moving distance. Arthur E. Morgan, Engr., St. Cloud, Minn.

*RUBBLE STONE, DIKES.—New York, N. Y.—Bids are asked until noon, Sept. 2, by Col. John G. D. Knight, Corps Engrs., U. S. A., for furnishing rubble stone and quarry spalls for constructing and repairing dikes in Hudson River, N. Y.

RIVER CUT-OFF.—Aitkin, Minn.—The State Drainage Commission, S. G. Iverson, Capitol, St. Paul, Minn., Secy., will soon take bids on a cut-off for the Mississippi River near here. It is to be nine miles long. Cost, $150,000.

AUTOMOBILE.—New York, N. Y.—Bids are asked by George Cromwell, Pres. Boro. Richmond, until noon, Aug. 20, for furnishing and delivering one new automobile, not less than four cylinders, 1907 model, of not less than 30 actual HP., and to seat not less than five persons.

*GARBAGE DISPOSITION.—Baltimore, Md.—Bids are asked by the Board of Awards, J. Barry Mahool, Pres., until 11 a. m., Sept. 4, for removal and final disposition of garbage, dead animals and market refuse, from Jan. 1, 1908, until Jan. 1, 1918. J. L. Wickes is Comr. of Street Cleaning.

*EXCAVATION, CONCRETE WALLS.—Joliet, Ill.—Bids are asked until 2 p. m., Sept. 3, by the Spring Creek Drainage District Commissioners for excavation of channels and for building concrete walls. Estimated quantity: Excavated material, 90,000 cu. yds.; concrete walls, 10,000 cu. yds.

DREDGING.—Washington, D. C.—Bids are asked by R. C. Hollyday, Ch. Bureau Yards and Docks, Navy Yard, until 11 a. m., Sept. 7, for dredging and removing about 20,000 cu. yds. of material from channel, navy yard, Washington. Specifications are on file at office of Engineering News, New York.

*BREAKWATER.—Cleveland [illegible] are asked by Lieut.-Col. C. M. [illegible] Corps Engrs., U. S. A., until [illegible] 10, for extension of west breakwater at Fairport Harbor, Ohio.

Bids are asked at the same [illegible] sion of the east breakwater [illegible] Harbor, Ohio.

*CONCRETE CONDUIT AN[illegible] —Little Rock, Ark.—Bids are [illegible] a. m., Sept. 7, for the constr[illegible] miles open ditch, requiring 1[illegible] of earth excavation, one rein[illegible] conduit, 84 ins. diameter, [illegible] Estimated cost, $76,500. Lund[illegible] Joe Asher, County Clerk.

FREIGHT SHEDS.—New Yo[illegible] are asked by J. A. Bensel, C[illegible] until noon, Aug. 21, for Cont[illegible] For furnishing all the labor [illegible] required for preparing for [illegible] freight sheds on Piers 60, 61 [illegible] the adjacent bulkhead platfo[illegible] extensions between West 19[illegible] Sts. on the North River, in th[illegible] tion.

(Continued on page [illegible])

CONTRACT PRIC[illegible]S.

[Where (*) precedes items u[illegible] Contract Prices the work was adver[illegible] in Engineering News.]

*OUTFALL SEWER.—Balti[illegible], Md.—Bids were received as follows [illegible] May 15 by the Board of Awards for con[illegible]cting outfall sewer, Sections 4, 5 and 6 [illegible] Calvin W. Hendrick, Ch. Engr., Sewerage [illegible]mm. The Bidders were: (A) M. A. TA[illegible] T & CO., Baltimore (awarded contracts [illegible] Sections 4 and 5); (B) DAVID PEOPLES, [illegible]hiladelphia (awarded contract for Section 6):

	(A)	(B)
Section 4:		
2,947.26 lin. ft. excav. and refill in trench or tunnel	$13[illegible]	$17.00
100 cu. yds. extra material for embankment	[illegible]	1.50
2,600 cu. yds. embankment	[illegible]	.15
25 cu. yds. extra excavation below sub-grade	[illegible]	2.00
25 cu. yds. gravel refill below sub-grade	[illegible]	2.50
100 cu. yds. excavation for drainage ditches, etc	[illegible]	.50
750 cu. yds. ordinary brick masonry	19.00	14.00
25 cu. yds. vitrified brick masonry	21.[illegible]	23.00
6,065 cu. yds. "Class A" concrete masonry	10.24	10.50
1,334 cu. yds. "Class B" concrete masonry	8.97	9.50
600,000 lbs. corrugated or twisted steel bars	.06	.05
2 cu. yds. dimension-stone masonry	21.00	20.00
10 cu. yds. rubble masonry	8.00	8.00
100 lin. ft. 6" underdrain	.34	.40
200 lin. ft. 8" underdrain	.36	.45
800 lin. ft. 10" underdrain	.58	.60
1,900 lin. ft. 12" underdrain	.74	.90
70 M. ft. B. M. sheeting left in place	30.00	25.00
5 M. ft. B. M. plain sheet-piling left in place	37.00	40.00
5 M. ft. B. M. specially formed sheet-piling left in place	54.00	60.00
10 M. ft. B. M. lumber in foundations	45.00	45.00
100 lin. ft. piles in place	.90	1.00
100 sq. yds. slope paving	1.35	1.00
6 manhole heads and covers in place	18.00	15.00
78 8" galvanized w.-i. manhole steps	.27	1.00
5 w.-i. pile shoes	.45	2.00
1 siphon, complete	2,396.37	2,000.00
Total	$174,521	$175,442
Number of working days required to complete work	400	350
Section 5:	(A)	(B)
2,975 lin. ft. excavation and refill in trench or tunnel	$15.00	$18.30
100 cu. yds. extra material for embankment	.53	1.50
5,000 cu. yds. embankment	.13	.15
25 cu. yds. extra excavation below sub-grade	2.10	2.00
25 cu. yds. gravel refill below sub-grade	2.55	2.50
100 cu. yds. excavation for drainage ditches, etc	.60	.50
775 cu. yds. ordinary brick masonry	19.50	14.00
25 cu. yds. vitrified brick masonry	22.50	23.00
3,600 cu. yds. "Class A" concrete masonry	10.24	11.00
3,500 cu. yds. "Class B" concrete masonry	8.97	9.50
1,000 lbs. corrugated or twisted steel bars	.06	.05
2 cu. yds. dimension-stone masonry	21.00	20.00
5 cu.yds. rubble masonry	8.00	8.00
100 lin. ft. 6" underdrain	.34	.40
300 lin. ft. 8" underdrain	.36	.45
1,500 lin. ft. 10" underdrain	.58	.60
1,000 lin. ft. 12" underdrain	.74	.90
70 M. ft. B. M. sheeting left in place	33.00	25.00
5 M. ft. B. M. plain sheet-piling left in place	37.00	40.00
5 M. ft. B. M. specially formed sheet piling, in place	54.00	60.00
10 M. ft. B. M. lumber in foundations	45.00	45.00
1,500 lin. ft. piles in place	.90	.80
100 sq. yds. slope paving	1.35	1.00
6 manhole heads and covers in place	18.00	15.00
60 8" galvanized w.-i. manhole steps	.27	.75
25 w.-i. pile shoes	.45	2.00
1 grating	90.00	15.00
Total	$135,807	$146,085
Number of working days required to complete work	400	350
Section 6:	(A)	(B)
3,247.86 lin. ft. excav. and refill in trench or tunnel	$14.43	$14.00
100 cu. yds. extra material for embankment	1.50	1.50
7,100 cu. yds. embankment	.13	.15
25 cu. yds. extra excavation below sub-grade	2.10	2.50
25 cu. yds. gravel refill below sub-grade	2.55	2.50
100 cu. yds. excavation for drainage ditches, etc	.60	.50
820 cu. yds. ordinary brick masonry	19.50	14.00
25 cu. yds. vitrified brick masonry	22.50	23.00
3,900 cu. yds. "Class A" concrete masonry	10.24	11.00
4,000 cu. yds. "Class B" concrete masonry	8.97	9.50
5,000 lbs. corrugated or twisted steel bars	.06	.05
5 cu. yds. dimension-stone masonry	21.00	20.00
10 cu. yds. rubble masonry	8.00	8.00
200 lin. ft. 6" underdrain	.34	.40
500 lin. ft. 8" underdrain	.36	.45
500 lin. ft. 10" underdrain	.58	.60
2,000 lin. ft. 12" underdrain	.74	.90
50 M. ft. B. M. sheeting left in place	30.00	25.00
5 M. ft. B. M. plain sheet-piling, left in place	37.00	40.00
5 M. ft. B. M. specially formed sheet piling, in place	54.00	60.00
10 M. ft. B. M. lumber in foundations	45.00	45.00
200 lin. ft. piles in place	.90	1.00
400 sq. yds. slope paving	1.35	1.00
6 manhole heads and covers in place	18.00	15.00
63 8" galvanized w.-i. manhole steps	.27	.75
10 w.-i. pile shoes	.45	2.00
420 lin. ft. macadam roadway	3.57	2.91
Total	$1[illegible]074	$146,829
Number of working days required to complete work	[illegible]0	350

*STORM-WATER DRAINS.—Baltimore, Md.—Bids were received by the Board of Awards on May 15, as follows, for constructing storm-water drains, Contracts Nos. 2 and 3: (A) DAVID PEOPLES, Philadelphia (awarded both contracts on May 22); (B) M. A. Talbott & Co., Baltimore. In detail the bids were as follows:

Contract No. 2:	(A)	(B)
2,220 lin. ft. excavating and refilling 96" drain	$11.90	$11.00
443 lin. ft. excavating and refilling 54" drain	22.40	5.60
1,034 lin. ft. excavating and refilling 48" drain	5.00	4.64
1,035 lin. ft. excavating and refilling 42" drain	3.25	4.34
2,195 lin. ft. excavating and refilling 36" drain	3.00	4.64
508 lin. ft. excavating and refilling 33" drain	2.40	2.70
375 lin. ft. excavating and refilling 30" drain	2.00	2.84
2,612 lin. ft. excavating and refilling 24" drain	1.60	2.26
830 lin. ft. excavating and refilling 20" drain	1.55	1.96
1,711 lin. ft. excavating and refilling 18" drain	1.85	1.80
2,460 lin. ft. excavating and refilling 15" drain	1.40	1.80
592 lin. ft. excavating and refilling 12" drain	1.25	1.08
443 lin. ft. furnishing & bldg. 54" reinforced con. drain	10.07	16.54
1,034 lin. ft. furnishing & bldg. 48" brk masonry drain	5.80	9.62
1,034 lin. ft. furnishing & bldg. 48" ordinary con. drain	5.94	9.16
1,034 lin. ft. furnishing & bldg. 48" reinforced con. drain	7.26	7.24
1,034 lin. ft. furnishing & laying 48" reinforced con. pipe	5.75	7.05
1,035 lin. ft. furnishing & bldg. 42" brk masonry drain	4.95	8.21
1,035 lin. ft. furnishing & bldg. 42" ordinary con. drain	5.01	6.97
1,035 lin. ft. furnishing & laying 42" reinforced con pipe	4.93	5.86
2,195 lin. ft. furnishing & bldg. 36" brk masonry drain	4.55	6.93
2,195 lin. ft. furnishing & bldg. 36" ordinary con. drain	4.30	5.76
2,195 lin. ft. furnishing & laying 36" reinforced con. pipe	4.20	5.27
508 lin. ft. furnishing & bldg. 33" brk masonry drain	3.97	6.49
508 lin. ft. furnishing & bldg. 33" ordinary con. drain	3.50	4.89
508 lin. ft. furnishing & laying 33" reinforced con. pipe	3.45	4.84
375 lin. ft. furnishing & bldg. 30" brk masonry drain	3.62	7.10
375 lin. ft. furnishing & bldg. 30" ordinary con. drain	3.10	4.27
375 lin. ft. furnishing & laying 30" reinforced con. pipe	3.88	3.91
375 lin. ft. furnishing & laying 30" vitrified pipe	3.05	4.13
2,612 lin. ft. furnishing & laying 24" vitrified pipe	1.76	2.31
830 lin. ft. furnishing & laying 20" vitrified pipe	1.28	1.73
1,711 lin. ft. furnishing & laying 18" vitrified pipe	1.04	1.39
2,460 lin. ft. furnishing & laying 15" vitrified pipe	.89	1.04
592 lin. ft. furnishing & laying 12" vitrified pipe	.62	.70
2,210 lin. ft. furnishing & laying 12" inlet connections	1.87	.98
200 cu. yds. ord. brk. masonry laid in Portland cem	16.00	21.02
75 cu. yds. vit. brk. masonry laid in Portland cem	23.00	24.42
1,300 cu. yds. ordinary concrete masonry, "Class A"	9.50	10.71
2,700 cu. yds. ordinary concrete masonry, "Class B"	8.50	9.26
1,000 lbs. corrugated steel bars	.06	.05
2 cu. yds. dimension stone masonry in Portland cem	20.00	34.00
200 lin. ft. exc., furnishing & laying 6" underdrain	.40	.51
400 lin. ft. exc., furnishing & laying 8" underdrain	.45	.68
20 M. ft. B. M. lumber sheeting or shoring	25.00	20.00
10 M. ft. B. M. plain sheet piling left in place	40.00	20.00
10 M. ft. B. M. special sheet piling left in place	60.00	30.00
25 M. ft. B. M. lumber in foundation	50.00	51.00
600 lin. ft. spruce or pine piles	1.00	.68
500 cu. yds. rock excavation (boulders over ½-cu. yd.)	5.00	5.10
500 cu. yds. earth excavation where rock is encountered	2.50	2.55
2,000 cu. yds. material required for embankment	1.50	.68
3,000 cu. yds. emb. spreading and consolidating	.15	.17
50 sq. yds. slope paving on embankment	1.00	2.55
6 12" slants	1.00	3.40
1 15" slant	1.50	3.40
30 12" Y branches	1.25	3.40
50 cu. yds. excavation for bell mouths	10.00	1.70
25 cu. yds. excavation below grade	2.50	1.70
25 cu. yds. gravel refill below drain, except that around un. dr.	2.50	2.89
70 manhole frames and covers	15.00	17.95
505 lin. ft. brick manholes (inc. and back filling)	5.00	4.10
400 8" galv. wrought-iron manhole steps	.75	.31
39 inlets, "Class A," including excavation and backfill	60.00	21.16
34 inlets, "Class B," including excavation and backfill	55.00	25.50
33 inlets, "Class C," including excavation and backfill	55.00	17.00
1 inlet, "Class D," including exc., backfill & grading	60.00	30.60
20 inlet heads, "Class A" (flush)	20.00	32.30
21 inlet heads, "Class A" (depressed)	20.00	28.90
17 inlet heads, "Class B" (flush)	22.00	32.30
15 inlet heads, "Class B" (depressed)	20.00	28.90
17 inlet heads, "Class C" (flush)	22.00	25.50
16 inlet heads, "Class C" (depressed)	20.00	23.80
400 lin. ft. granite curb, furnishing and setting	1.40	1.36
10 sq. yds. removing and relaying gutters, etc	.50	1.36
292 lin. ft. 30" cast-iron pipe, excavation and refill	14.00	17.85
255 lin. ft. 24" cast-iron pipe, excavation and refill	5.81	10.50
360 lin. ft. 20" cast-iron pipe, excavation and refill	4.75	9.65
625 lin. ft. double 30" c.-i. pipe, excavation and refill	26.00	36.21
1,900 sq. yds. vitrified lining for reinforced con. pipe	1.45	1.70
800 lin. ft. removing and resetting curbs	.40	.21
1,000 lbs. furnishing and setting 8" I-beams	.05	.09
Total amount of bid (minimum)	$196,821	$216,727
Number of working days required to complete work	350	600

Contract No. 3:	(A)	(B)
2,836 lin. ft. exc. & refill above grade for 50" x 69" double drain	$17.00	$15.73
765 lin. ft. exc. & refill above grade for 42" x 60" drain	3.11	6.38
796 lin. ft. exc. & refill above grade for 48" drain	7.60	4.89
311 lin. ft. exc. & refill above grade for 42" drain	3.33	5.31
415 lin. ft. exc. & refill above grade for 36" drain	2.55	5.74
905 lin. ft. exc. & refill above grade for 33" drain	3.00	5.95
30 lin. ft. exc. & refill above grade for 30" drain	1.35	5.42
915 lin. ft. exc. & refill above grade for 24" drain	1.00	2.13
551 lin. ft. exc. & refill above grade for 20" drain	1.10	2.76
1,013 lin. ft. exc. & refill above grade for 18" drain	1.00	2.13
1,030 lin. ft. exc. & refill above grade for 15" drain	1.00	1.70
1,270 lin. ft. exc. & refill above grade for 12" drain	1.00	1.49
2,836 lin. ft. 50" x 69" double rect. reinforced con. drain in place	14.54	26.32
765 lin. ft. 42" x 60" reinforced con. masonry in place	10.90	13.47
796 lin. ft. 48" brick masonry drain in place	5.80	9.62
796 lin. ft. 48" ordinary concrete drain in place	5.94	9.16
796 lin. ft. 48" reinforced concrete drain in place	7.26	7.24
796 lin. ft. 48" reinforced concrete pipe in place	5.75	7.06
311 lin. ft. 42" brick masonry drain in place	4.95	8.21
311 lin. ft. 42" ordinary concrete drain in place	5.01	6.97
311 lin. ft. 42" reinforced concrete pipe in place	4.93	5.87
415 lin. ft. 36" brick masonry drain in place	4.55	6.94
415 lin. ft. 36" ordinary concrete drain in place	4.30	5.76
415 lin. ft. 36" reinforced concrete pipe in place	4.20	5.27
905 lin. ft. 33" brick masonry drain in place	3.97	6.49
905 lin. ft. 33" ordinary concrete drain in place	3.50	4.90
905 lin. ft. 33" reinforced concrete pipe in place	3.45	4.85
30 lin. ft. 30" brick masonry drain in place	3.62	7.11
30 lin. ft. 30" ordinary concrete drain in place	3.10	4.27
30 lin. ft. 30" reinforced concrete pipe in place	2.88	3.91
30 lin. ft. 30" vitrified pipe in place	3.05	4.13
915 lin. ft. 24" vitrified pipe in place	1.76	2.31
551 lin. ft. 20" vitrified pipe in place	1.28	1.73
1,013 lin. ft. 18" vitrified pipe in place	1.04	1.38
1,030 lin. ft. 15" vitrified pipe in place	.89	1.04
1,270 lin. ft. 12" vitrified pipe in place	.62	.70
2,040 lin. ft. 12" inlet connections (exc. and refill)	1.87	.85
30 cu. yds. brick masonry laid in Portland cement	16.00	21.03
10 cu. yds. vitrified brick masonry laid in Port. cem	23.00	24.43
75 cu. yds. concrete masonry, "Class A"	9.50	10.71
25 cu. yds. concrete masonry, "Class B"	8.50	9.27
2,000 lbs. steel reinforcing bars in place	.06	.05
1 cu. yd. dimension stone masonry in Portland cem	20.00	34.00
1,200 lin. ft. 6" underdrain (inc. exc. and refilling)	.40	.51
2,800 lin. ft. 8" underdrain (inc. exc. and refilling)	.45	.68
25 M ft. B. M. lumber sheeting left in place	25.00	20.00
60 M. ft. B. M. plain sheet piling left in place	40.00	20.00
30 M. ft. B. M. special sheet piling	60.00	30.00
50 M. ft. B. M. lumber foundation	50.00	51.00
1,500 lin. ft. spruce or pine piles	1.00	.68
5 cu. yds. rock excavation, boulders over ½ cu. yd.	5.00	5.10
20 cu. yds. earth exc. where rock is encountered	2.50	2.55
10 12" slants in place	1.00	3.40
2 15" slants in place	1.50	3.40
18 12" Y branches in place	1.25	3.40
80 cu. yds. exc. for bell-mouths (inc. sheeting)	10.00	1.19
100 cu. yds. exc. below subgrade (except for underdr)	2.50	1.70
100 cu. yds. gravel refill below drain (except that around underdrain)	2.50	2.89
52 frames and covers for manholes	15.00	17.95
416 lin. ft. br. manholes (exc & backfilling)	5.00	4.10
330 8" galvanized w.-i. manhole steps in place	.75	.31
28 inlets, "Class A," including excavation and backfill	60.00	21.17
47 inlets, "Class B," including excavation and backfill	55.00	25.50
18 inlets, Class C," including excavation and backfill	53.00	17.00
9 inlets, "Class D," including excavation and backfill complete	60.00	30.60
18 flush inlet heads, "Class A," complete, in place	20.00	32.30
10 depressed inlet heads, "Class A," complete, in place	20.00	28.90
32 flush inlet heads, "Class B," complete, in place	22.00	32.30
15 depressed inlet heads, "Class B," complete, in place	20.00	28.90
15 flush inlet heads, "Class C," complete, in place	22.00	52.50
3 depressed inlet heads, "Class C," complete, in place	20.00	23.80
300 granite curbs, lin. ft. in place	1.40	1.36
10 sq. yds. extra repaving	.50	1.36
470 lin. ft. 30" c.-i. pipe drain, complete, in place	7.13	17.00
212 lin. ft. 24" c.-i. pipe drain, complete, in place	5.81	10.93
12 lin. ft. 20" c.-i. pipe drain, complete, in place	5.00	11.05
12 lin. ft. 12" c.-i. pipe drain, complete, in place	4.95	5.34
Work and material on bulkhead, Pratt & Gay	5,000.00	1,496.00
Work & material on bulkhead, Pratt & Market Sp	7,000.00	2,125.00
515 sq. yds. vit. lining reinforced con. pipe, complete	1.45	1.70
400 lin. ft. resetting and removing curbs	.40	.20
2,000 lbs. 8" and 10" I-beams in place	.05	.09
Total amount of bid (minimum)	$177,944	$214,531
Number of working days required to complete work	350	600

Note: Cost of vitrified lining should be added to reinforced concrete pipe for comparison with other material.

Note: Cost of vitrified lining should be added to reinforced concrete pipe for comparison with other material.

*RESERVOIR DAMS.—New York, N. Y.—Bids were received by the Board of Water Supply, Thos. Hassett, Secy., on Aug. 6 for constructing main dams for Ashokan Reservoir near Brown's Station, in the Towns of Olive and Marbletown, Ulster County. The bidders and itemized bids were as follows: (A) John Peirce Co., 90 West St., $10,315,350; (B) MacArthur Bros.-Winston Co., 11 Pine St., $12,669,775; (C) Bradley Construction Co., 329 West 68th St., $13,931,250; (D) Stewart-Kerbaugh-Shanley & Co., 527 Fifth Ave., $13,979,813; (E) O'Rourke Eng. & Construction Co., 345 Fifth Ave., $14,707,750:

	(A)	(B)	(C)	(D)	(E)
Removing steel pipes, lump sum	$20,000.00	$10,000.00	$10,000.00	$34,000.00	$5,000.00
Control of stream flow, Olive Bridge dam, lump sum	15,000.00	10,000.00	30,000.00	15,950.00	25,000.00
Control of stream flow, Middle dike, lump sum	7,500.00	10,000.00	20,000.00	14,288.00	10,000.00
95,000 cu. yds. earth excav., Class A	.60	1.40	.60	.45	1.50
50,000 cu. yds. earth excav., Class B	1.00	2.50	1.50	2.00	3.00
1,700,000 cu. yds. earth excav., Class C	.30	.68	1.00	.52	.75
210,000 cu. yds. earth excav., Class D	.35	.50	.50	1.00	1.00
140,000 cu. yds. rock excav., Class A	2.50	3.00	3.10	3.00	5.00
210,000 cu. yds. rock excav., Class B	1.50	1.60	1.75	1.00	1.75
75,000 cu. yds. rock excav., Class C	1.25	1.00	1.75	2.00	1.75
40,000 sq. yds. spec. preparation of rock surfaces	1.00	.50	2.00	.80	.50
2,500,000 cu. yds. embanking and refilling, Class A	.42	.60	.60	.64	.60
3,200,000 cu. yds. embanking and refilling, Class B	.375	.60	.65	.64	.58
1,200,000 cu. yds. embanking and refilling, Class C	.35	.50	.75	.80	.95
110,000 cu. yds. embanking and refilling, Class D	.50	.50	.55	.80	1.50
45,000 cu. yds. embanking and refilling, Class E	.50	.50	.50	.75	.50
210,000 cu. yds. soil for surface dressing	.40	.50	1.25	1.50	1.60
1,100,000 bbls. Portland cement	1.90	1.50	2.10	1.53	2.00
280,000 cu. yds. concrete masonry	4.25	4.90	4.00	5.60	5.50
475,000 cu. yds. cyclopean masonry, Class A	3.00	3.40	3.00	4.10	3.30
55,000 cu. yds. cyclopean masonry, Class B	3.90	3.90	3.50	5.05	3.10
64,000 cu. yds. concrete blocks	8.50	11.50	7.50	9.20	8.50
1,000 cu. yds. reinforced concrete	12.50	20.00	25.00	9.25	10.00
8,000 cu. yds. masonry filling openings, control stream flow	8.10	1.50	4.00	5.20	4.50
5,000 cu. ft. grout of Portland cement	.30	.50	2.00	.25	.50
1,000 lin. ft. drilling small holes in rock or masonry	.50	1.00	1.00	.65	1.00
125,000 sq. ft. face dressing of concrete	.15	.10	.50	.40	.15
95,000 cu. yds. dry rubble paving	2.50	2.50	2.50	4.15	3.00
10,000 cu. yds. riprap	1.50	1.50	2.00	3.30	2.00
50 tons c.-i. pipes and special castings	90.00	101.00	100.00	140.00	120.00
50 tons steel castings	160.00	150.00	150.00	280.00	300.00
25,000 lbs. steel for reinforcing concrete	.06	.07	.05	.05	.06
500,000 lbs. w.-i., c.-i. and steel	.05	.08	.05	.08	.15
4,000 lbs. bronze work	.50	.50	1.00	.70	.50
2,500 lin. ft. furnishing and placing w.-i. pipes	.40	.50	.50	.80	.50
200,000 lbs. caring for and setting metal furnished by City	.02	.02	.03	.02	.04
25 acres clearing	100.00	140.00	75.00	130.00	50.00
11,500 lin. ft. vit. pipes not exceeding 10" in diam	1.50	.50	1.00	.80	.50
10,000 lin. ft. vit. pipes from 12" to 18", incl., in diam	3.00	1.25	1.50	1.50	1.00
11,000 cu. yds. crushed stone and gravel	2.00	1.25	2.00	1.75	2.50
M. ft. B. M. timber and lumber	40.00	50.00	60.00	65.00	75.00
Total	$10,315,350	$12,669,775	$13,931,250	$13,979,813	$14,707,750

Time—54 Months. Bond: $1,000,000. Engineer's Estimate: $12,850,000.

MISCELLANEOUS CONTRACTS.

*CONCRETE DAMS.—Cincinnati, Ohio.—Bids are asked until 2 p. m., Sept. 11, by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, for constructing dams of concrete, etc., at head of Browns Island and head of Marietta Island, Ohio River, and for building one dike and shore protection in Ohio River near head of Grand Chain, Ill.

*FILL.—Rye, N. Y.—Ralph L. Crow, 289 Fourth Ave., New York, "will pay liberally for fill, either rubbish, cellar dirt, stone, gravel, loam, clay or rock, delivered either spread or alongside retaining wall, at Pine Island, Milton Point, Rye, N. Y. About 3,000 yds. are required. Can carry about eight feet draft at high tide. Will take it in schooners or scows."

*CRIB BREAKWATERS.—Racine, Wis.—Bids were received as follows by Maj. W. V. Judson, Corps Engrs., U. S. A., Milwaukee, Wis., on Aug. 2 for building crib breakwaters at (A) Racine and (B) Kenosha harbors, Wis.: The Edward Gillen Dock, Dredge & Construction Co., Racine, (A) $23,670; (B) $27,370. P. W. Galloway, Racine, (A) $20,653; (B) $25,042. William H. Gillen, Milwaukee, Wis., (A) $23,148; (B) $26,812. Burk, Smith & Nelson, Muskegon, Mich., (A) $24,230; (B) $28,237.

CRIB BULKHEAD.—Brooklyn, N. Y.—Bids were received as follows Aug. 7 by Bird S. Coler, Boro Pres., for building a crib bulkhead on the Eighth Ward Market, between 36th and 37th Sts., Second Ave., and New York Bay, Brooklyn. The engineer's preliminary estimate of total cost for the completed work is to be taken as the 100 per cent. basis for bidding. Proposals shall state a single percentage of such 100 per cent. cost (i. e., such as 95 per cent., 100 per cent. or 105 per cent.) for which all material and work called for in the specifications are to be furnished to the city. Such percentage as bid shall apply to all unit items specified in the following engineer's preliminary estimate to an amount necessary to complete the work described in the contract. (Estimated cost, $150,934.) The bids were as

follows: William H. Jenks, 61 Pearl St., 111 3-5%; J. H. Statts, 29 Broadway, 99%; George B. Spearin, 4 Navy Yard, Brooklyn, 95.248%; Bernard Rolf, 39 Cortland St., 98.4%; Phoenix Construction Co., 41 Park Row, 92.5%.

GASOLINE CAR.—New York, N. Y.—Bids are asked until 10 a. m., Aug. 26, by Arthur J. O'Keeffe, Act. Police Comr., for one gasoline touring 5-passenger car.

MACHINE TOOLS.—New York, N. Y.—Bids were received by the Department of Docks on Aug. 9 for miscellaneous machine tools, as follows: A. D. Granger & Co., 90 West St., $48,575; Howe Engineering Co., 150 Nassau St., $26,518; J. Edward Ogden & Co., 147 Cedar St., $39,360.

VACUUM CLEANING SYSTEM, New York, N. Y.—Bids are asked until 2 p. m., Aug. 26, by Henry S. Thompson, Act. Boro. Pres., Manhattan, for the installation and construction of a suction or vacuum cleaning system in the Criminal Courts Building, Centre, Franklin, Lafayette and White Sts., Boro. of Manhattan.

*DREDGING.—Philadelphia, Pa.—Bids were received on Aug. 12 by Maj. J. C. Sanford, Corps Engrs., U. S. A., Philadelphia, for dredging in Delaware River at Perriwig Bar. Contract was awarded to the AMERICAN DREDGING CO., Philadelphia, at 33 cts. a cu. yd., place measurement. Estimated quantity, 140,000 cu. yds. of earth.

GREENHOUSE.—New York, N. Y.—Bids were received on Aug. 1, by the Park Board, for completely erecting and constructing a greenhouse in the Botanical Garden, in Bronx Park, in the City of New York. Moses Herrman is Pres. Contract was awarded to KELLY & KELLEY, 45 East 42d St., for constructing houses 1, 2, 3, 4 and 5 at $62,-796; and with house 6 $69,307.

FILLING IN.—Portsmouth, N. H.—Bids were received as follows Aug. 10, at the office of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for filling in back of quay wall, Navy Yard, Portsmouth, N. H.: Lesher & Wagner, 114 Pavonia Ave., Jersey City, N. J., Item 1, $29,256; Item 2, $11,684. Boston & New York Contracting Co., 20 Devonshire St., Boston, $37,844.

*BARGE CANAL.—Albany, N. Y.—F. C. Stevens, Supt. Public Works, has awarded to the STEWART-KERBAUGH-SHANLEY CO., 527 Fifth Ave., New York, Barge Canal contract No. 12, at $3,391,716. The engineer's estimate is $3,082,560. The work is located in Oswego and Cayuga Counties and is the largest contract thus far awarded for work on the Barge Canal. Itemized prices were given last week under Contract Prices.

*MARGINAL CONDUIT.—Boston, Mass.—Bids were received on Aug. 6 by the Charles River Basin Commission, 367 Boylston St., Boston, for constructing the Cambridge marginal conduit. Work includes concrete masonry, piling and excavating. Contract was awarded to PATRICK McGOVERN, 6 Beacon St., Boston, at $55,320. List of itemized bids will be given under Contract Prices next week. Henry S. Pritchett is Chn.; Hiram A. Miller is Ch. Engr.

FREIGHT SHEDS.—New York, N. Y.—Bids were received as follows on Aug. 13, on contract 1060.—For furnishing all the labor and materials required for preparing for and building freight sheds on piers 57, 58 and 59, between West 14th and West 19th Sts., North River, with lateral extensions on the adjacent bulkhead platforms: James Stewart, 135 Broadway, $1,864,000; Post & McCord, 44 E. 23d St., $1,849,000; R. P. & J. H. Sands, 20 Broadway, $1,829,000; Maryland Steel Co., 71 Broadway, $1,856,967.

POWER LAUNCHES. — New York, N. Y.—Bids were received as follows by Theo. A. Bingham, Police Comr., on Aug. 9, for furnishing and delivering two power launches for the Police Department: The Electric Launch Co., 5 Nassau St., $13,865; Gas Engine & Power Co., Morris Heights, New York, $13,960; Monad Engineering Co., 147 Cedar St., $15,165; Alex. Miller & Bro., Jersey City, N. J., $15,000; J. W. Sullivan, 827 East 9th St., $12,500; Louis L. Bernier, $15,217; James Shewan & Son, foot East Houston St., $13,700; J. A. Nicholson, $12,-900.

*DREDGING.—Norwalk, Conn.—Bids were received as follows on Aug. 12 by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, Conn., for dredging in Norwalk Harbor: Prices based on two contracts—(A) Contract No. 1, First Division, 118,000 cu. yds.; Contract No. 2, 2d Div., (B) 135,000 cu. yds.; (C) 3d Div., 6,000 cu. yds.; (D) 50 cu. yds. rock and boulders. Prices based on one contract: (E) same as A; (F) same as B; (G) same as C; (H) same as D: Edward A. Berry, (A) $18,220; (B) $22,950; (C) $1,500; (D) $750; (E) $19,470; (F) $22,275; (G) $900; (H) $750. John and Joseph McSpirit, (A) $16,638; (B) $26,325; (C) $1,440; (D) $950; (E) $16,520; (F) $25,987; (G) $1,440; (H) $950. Atlantic Dredging Co., (A) $18,762; (B) $25,245; (C) $3,000; (D) $500; (E) $24,-532; (F) $23,400; (G) $2,700; (H) $500. John P. Randerson, (information as no b'd was submitted on (D), (A) $16,520; (B) $21,600; (C) $2,400; (E) $16,372 50; (F) $21,431.25; (G) $2,400. Maritime Dredging Co., (A) $17,-307; (B) $22,500; (C) $2,880; (D) $900; (E) $18,054; (F) $20,655; (G) $2,580; (H) $900. International Contracting Co., (A) $18,880; (B) $21,600; (C) $1,800; (D) $500.

DREDGING. — Washington, D. C.—Bids were opened as follows Aug. 12, at the office of Maj. Spencer Cosby, U. S. A., Corps of Engrs., Washington, D. C., for dredging in the Potomac and Anacostia Rivers, near Washington, D. C., (a) price per cu. yd. dredging in Virginia Channel, Potomac River, estimated quantity about 400,000 cu. yds.; (b) price for dredging in Tidal Reservoir, Potomac River, about 600,000 cu. yds.; (c) dredging soft material in Anacostia River, about 700,000 cu. yds.; (d) dredging hard material in Anacostia River, about 21,000 cu. yds.; (e) removing piles, Anacostia River, about 780 piles: Atlantic, Gulf & Pacific Co., New York, (a) (b) (c) each 9.73 cts. per cu. yd.; (d) 30 cts.; (e) $3.50 each. Bowers Hydraulic Dredging Co., Philadelphia, (a) 11.75 cts.; (b) 8.875 cts.; (c) 9 cts.; (d) 25 cts.; (e) $2.50. Charles Vivian & Co., Islip, N. Y., (a) 11.9 cts.; (b) 9.8 cts.; (c) 10.3 cts.; (d) 29 cts.; (e) $8.50. Cataract Dredging Co., Baltimore, (a) 13.7 cts.; (b) 9.3 cts.; (c) 10.4 cts.; (d) 26 cts.; (e) $7. American Dredging Co., Philadelphia, (a) (b) (c), each 11.3 cts.; (d) 25 cts.; (e) $3.25. Coastwise Dredging Co., Norfolk, Va., (a) (b) (c) 11 cts.; (d) 21 cts.; (e) $4. Maryland Dredging Co., Baltimore, Md., (a) 10 cts.; (b) 9.5 cts.; (c) 9.5 cts.; (d) 20 cts.; (e) $3. Potomac Dredging Co., Home Life Building, Washington, (c) 24 cts. Thomas Banks, Philadelphia, (e) $2.24¾ each. Carter & Clark, (e) $2.90 each.

U. S. POSSESSIONS AND CUBA.

LUMBER.—Panama.—List of bids opened on Aug. 8, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a large quantity of lumber, will be given in full next week.

BRIDGE.—Panama.—Bids are asked until 10.30 a. m., Aug. 28, by David W. Ross, Gen. Purchasing Officer Isthmian Canal Commission, Washington, for furnishing at dock, New York or New Orleans, one single-track steel railroad bridge, consisting of one 200-ft. span through Warren riveted truss, and 14 80-ft. spans half-through plate girders.

*DREDGING.—Porto Rico.—Bids were received as follows on Aug. 7, by Maj. Charles L. Potter, Corps Engrs., U. S. A., Tompkinsville, N. Y., for dredging in San Juan Harbor, Porto Rico: (A) 1,880,000 cu. yds. soft material: (B) 67,700 cu. yds. coral rock; (C) grand total: Utrecht Contracting Co., Brooklyn, N. Y. (A) 11 cts., (B) 69 cts., (C) $252,-133; Standard Dredging Co., Wilmington, Del., (A) 19 cts., (B) $6.80, (C) $803,960; M. J. Daly, 350 Fulton St., Brooklyn, N. Y., (A) 43 cts., (B) $9.85, (C) $1,455,545.

MACHINERY, ETC. — Panama.—Requisitions have been received at the Isthmian Canal Commission, Washington, D. C., calling for four locomotive coaling cranes, two 10-ton and two 20-ton capacity; six hoisting engines; one 120-HP. Manning pattern boiler; 1,200 ft. 24 and 30-in. culvert pipe; one 8-ton steam roller; 20,000 bbls. Portland cement. Also for over 2,000,000 ft. B. M. lumber, long-leaf yellow pine, of various shapes and sizes. Plans and specifications will be prepared and will be ready for distribution in a few days.

STEEL RAILS.—Panama.—Bids were received as follows on Aug. 8, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, for furnishing 3,000 gross tons 70-lb. steel rails: R. C. HOFFMAN, Baltimore (awarded contract), $95,250; shipment, September; also contract for 22,000 angle bars, $7,875; 200 gross tons 30-lb. steel rails, $7,160. United States Steel Products Exports Co., 24 State St., New York, $97,350, 100 days. Bethlehem Steel Co., South Bethlehem, Pa., $126,-750, 230 days.

STEEL BARGES.—Panama.—Bids were received Aug. 12 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commision, Washington, D. C., for furnishing three steel dump barges, capacity of not less than 350 tons and not more than 400, and of a breadth not less than 25 ft. nor more than 32 ft.: Maryland Steel Co., Sparrows Point, Md., $59,495, 120 days; Morrill-Stevens Co., East Bay St., Jacksonville, Fla., $97,500, $105,000, 150 days; Moran Co., Seattle, Wash., $66,645, $55,500, 180 days; Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $66,000, $69,000, 150 days; Lewis Nixon, 26 Cortlandt St., New York, $76,950, 150 days; U. S. Steel Products Exports Co., 24 State St., New York, $85,575, delivered at Colon, 225 days. Delivery at yards of bidders unless otherwise specified.

WATER-WORKS.—Cuba. — In about a month the Department of Public Works, Cuba, expects to call for bids on a majority of the work for the new Camaguey waterworks. The system consists of a centrifugal pumping plant which will force the water against a head of 360 ft. through an 18-in. force main about 6 kilometers long to a double tank, concrete-steel reservoir. From the reservoir a 20-in. supply main, 17 kilometers long, will carry the water to the city distributing system, also to be constructed. The pumping plant and machinery will be let under a second contract, but the rest of the work will be covered by the first contract. This contract will also probably include a telephone line from the city to the headworks. The first contract will include the furnishing and laying of about 8,000 tons of cast iron pipe, ranging in size from 4" to 20." The concrete steel reservoir will require the placing of 635 cu. meters of plain concrete and 1,160 cu. meters of reinforced concrete. Henry A. Young is Engr.-in-Charge.

STEEL BARGES. — Panama. — Bids are asked until 10.30 a. m., Aug. 26, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing, erected and completed, at La Boca (Pacific port), Isthmus of Panama, or furnishing knocked down and securely packed for ocean shipment by steamer on dock at either Colon or La Boca, six steel barges. The barges are to be of heavy construction for rough service, and of the following dimensions: Length on deck, 127 ft. 4 ins.; length on bottom, 104 ft.; beam, 32 ft.; depth, 12 ft.; normal load water line, 9 ft. These barges are called for under Circular No. 383 and drawings will be furnished upon application.

Requisitions have just been received by the Commission calling for twelve more steel barges, 156 ft. long, 35 ft. wide, 12 ft. deep, to be of similar construction to the above. They are to be used in carrying rock and sand between Porto Bello and Gatun on the Atlantic side of the canal. Specifications are being prepared and will be issued shortly.

CIVIL SERVICE EXAMINATIONS.

ENGINEER—Cheyenne Agency, S. Dak.—An examination will be held by the U. S. Civil Service Commission on Sept. 4 to secure eligibles to fill a vacancy in the position of Engineer, Cheyenne River Agency, South Dakota (Indian Service), at $720 a year, and similar vacancies as they may occur. Age limit, 20 years. Application Form 1093.

PUBLIC DOCUMENT CATALOGER—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 4, to secure eligibles to fill vacancies as they may occur in the position of Public Document Cataloger in the Government Printing Office, at $900 a year, and similar vacancies as they may occur in other branches of the service. As an insufficient number of eligibles to meet the needs of the service resulted from the examination held on Feb. 27, 1907, qualified persons are urged to apply for this examination. Age limit, 20 years. Application Form 1312.

ELECTROTYPE MOLDER—Washington, D. C.—The U. S. Civil Service Commission announces an examination Aug. 28, to secure eligibles to fill vacancies as they may occur in the position of Electrotype Molder in the Government Printing Office, at 56¼ cents an hour (eight hours constitute a day's work). Applicants must indicate in their applications that they have served at least five years in the trade of electrotype molder, three years of which must have been served as apprentice and at least one year as journeyman. No credit will be allowed in the examination for experience obtained below the age of 14 years. Age limit, 21 years. Application Form 1093.

LEVELER.—Albany, N. Y.—The following persons have passed the examination held on June 29th by the New York State Civil Service Commission for the position of Leveler, and are eligible for appointment in the State service:

	Per cent.
Arthur S. Milinowski, 709 St. Paul St., Rochester, N. Y.	93.15
Thomas H. Olds, 123 Quarry St., Ithaca, N. Y.	91.42
Harry C. Smith, 100 Greenwood St., Canisteo, N. Y.	86.07
Foster B. Crocker, 307 North George St., Rome, N. Y.	85.00
LeRoy S. Rickard, 323 Hudson Ave., Albany, N. Y.	84.82
Thomas L. Watkins, Barge Canal Office, Albany, N. Y.	84.58
Carl C. Ahles, Kerhonkson, N. Y.	79.82
Frank H. Flint, 95 Lancaster St., Albany, N. Y.	79.32
Roy F. Hall, Clayton, N. Y.	76.99
John McBride, 305 Ninth St., Troy, N. Y.	76.34
William R. Trumbull, Delmar, N. Y.	75.01
Alfred J. Kaufman, Box 347, Schuylerville, N. Y.	75.00
Joseph D. Williams, 206 West St., Worcester, Mass.	80.95
Charles H. Pierce, 35 N. Converse Hall, Burlington, Vt.	79.16

ASSISTANT CIVIL ENGINEER.—Albany, N. Y.—The following persons have passed the examination held by the New York State Civil Service Commission on June 29th for the position of Assistant Civil Engineer, and are eligible for appointment in the State service:

	Per cent.
Charles D. Thomas, 547 Carlton Ave., Brooklyn, N. Y.	94.31
William Meadowcroft, 104 West 94th St., New York	90.28
John C. Davis, 304 East Railroad Ave., Ithaca, N. Y.	87.13
Isaac S. Matlaw, Barge Canal Office, Waterford, N. Y.	85.08
David J. Shaw, Yorktown Heights, N. Y.	85.74
Thomas Howard, 173 Chambers St., Newburg, N. Y.	83.22
Louis Garbl, Jr., Rome, N. Y.	81.87
William A. Kemper, 104 West 94th St., New York	80.82
James C. Bell, 75 S. Lake Ave., Albany, N. Y.	80.43
Claude L. McClelland, 7 South St., Ossining, N. Y.	79.41
George W. Bradley, Marcy, N. Y., R. F. D. No. 1	78.95
P. Edward Taylor, 556 West 186th St., New York	78.45
Charles H. Rogers, Rome, N. Y.	76.41
Albert L. Sayer, 14 Rensselaer St., Ogdensburgh, N. Y.	75.85
Otis F. Lewis, Fort Hunter, N. Y.	75.52
William T. MacCart, Fonda, N. Y.	75.02
Dale C. Roberts, Cornwall-on-Hudson, N. Y.	75.01
Lyster G. Bayly, 610 Fourth St., Troy, N. Y.	75.05
James T. Schuyler, Div. Engr.'s Office, Syracuse, N. Y.	75.00

For other Proposals Advertisements see pages 55, 56, 57, 58 of Advertisements and Construction News page 58.

PAVING.

Borough of Ridgway, Pa.

Sealed proposals for the grading, paving, setting of curb and improvement of West Main Street will be received by George F. Greiner, Borough Clerk, until 12 o'clock noon, August 31st, 1907.

The work consists of approximately the following quantities: 2,000 cu. yds. excavation, 8,100 sq. yds. brick paving with concrete base and 6,200 lin. ft. curb setting; also 700 cu. yds. masonry, 575 cu. yds. concrete foundations and 550 cu. yds. foundation excavation.

Blank forms of bids, instructions to bidders, plans and specifications may be obtained from the Borough Clerk.

The right to reject any and all bids is reserved. 7-2t

RAILROAD GRADIN... (105 MILES).

Until noon September 5th, ... ola, Fla. for Grading, Masonry and ... Proposals miles of railroad will be receiv... ss on 105 of the INTERSTATE CON... the office PANY, 224 Brent Building, P... T COM- where Estimates, Profiles, ... ola, Fla., Specifications and Blank Pro... Contract seen. ... s can be

The work to be graded co... all of the Andalusia Division, 85 miles ... 20 miles of the Atmore Division of ... Pensacola, Alabama & Western Railroad. 7-2t

DRAINAGE.

... y, Iowa. Bids will be received up to n... Sept. 10, 1907, for the construction of a... pen ditch requiring the removal of 103... cu. yds. dirt. For specifications and fur... information apply to the County Audito... of Osceola Co., Sibley, Ia.

V. A. BURLEY, 7-3t Co. Auditor.

Commonwealth of Massachusetts. Board of Harbor and Land Commissioners, State House, Boston, August 13, 1907. Sealed bids or proposals for dredging shoals in Ipswich river, in the town of Ipswich, will be received at the office of the Board of Harbor and Land Commissioners, Room 131, State House, Boston, Mass., until 2 o'clock P. M., Friday, August 23, 1907, and then and there will be publicly opened and read. The work to be done is the dredging of about 8,700 cubic yards of material from two shoals in Ipswich river. All proposals must be made upon blank forms which, together with information in regard to the work, may be obtained at the office of the Board, where plans and specifications may be seen. Each bidder will be required to give to the Board satisfactory assurance of his competency, experience and responsibility. The right is reserved to reject any and all bids and to waive any defect or informality, at the discretion of the Board. GEORGE E SMITH, HENRY J. SKEFFINGTON, SAMUEL M. MANSFIELD, Harbor and Land Commissioners. FRANK W. HODGDON, Chief Engineer. 7-1t

FORT WOOD, N. Y. H., August 15, 1907.—Sealed proposals, in triplicate, for foundations, painting and erection of 100-foot iron Flagstaff at this post will be received here until 10.30 a. m., August 30, 1907. The U. S. reserves the right to reject any or all bids. Information furnished on application. Envelopes containing proposals should be indorsed "Proposals for erection of flagstaff" and addressed to the undersigned. G. C. BURNELL, Constg. Q. M. 7-3t

SITUATIONS OPEN

WANTED—Macadam road and concrete foreman; state wages expected, also reference. Address "O. B. 7," Engineering News, New York. 7-1t

DRAFTSMEN AND CHECKERS on structural steel work for buildings. State experience and salary wanted. GEORGE A. JUST CO., 239 Vernon Ave., Long Island City. 7-1t

Miscellaneous Wants

WANTED

STEAM SHOVEL

about one yard, either on its own wheels or otherwise. Must be cheap for spot cash. KIMBALL LUMBER MFG. CO., 7-3t St. Louis, Mo

FOR SALE

FOR SALE CHEAP

One 17 x 24 eight-wheel locomotive.
One 14 x 22 eight-wheel locomotive.
One 15½ x22 eight-wheel locomotive.
Twenty 34-ft. 50,000 capacity flat cars.
Twenty 30-ft. 40,000 gondola cars.

84 GOOD SECOND-HAND BRIDGES

Specifications and Blue Prints on application.

F. A. JOHANN
Pierce Building: ST. LOUIS, MO. 7-7t

FOR SALE

ROAD SCARIFIER

in first-class condition. Cheap. For description and price, address "M. B. 7," Engineering News, New York. 7-3t

FOR SALE OR RENT.

70-ton Bucyrus Shovel, nearly new; 1 Manhattan locomotive, Forney type; 8 wood frame 6 yd. dump cars, new wheels, axles, brasses, all stand. gauge, good condition; 2,500 ft. relaying rails. F. S. INGERSOLL, 5709 W 30th St., Cleveland, O. 7-3t